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MAGAZINE

NEWS
FOR THE
COIN OPERATED
ENTERTAINMENT
INDUSTRY
Apr/May '90



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CANADIAN **Coin Box** MAGAZINE

NEWS
FOR THE
COIN-OPERATED
ENTERTAINMENT
INDUSTRY

*Published
since 1946*

Front Cover:

Midway Manufacturing Company of Chicago, Illinois debuts their newest Bally pinball machine Pool Sharks, the first flipper game to feature two games in one.

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Canadian Coin Box

is published 6 times each year in February/March, April/May, June/July, August/September, October/November, and December/January. Second Class mail registration number 1861

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For editorial and advertising material:
106 Lakeshore Rd. E., Suite 209
Port Credit, Ont. Canada L5G 1E3
Tel: 416-271-1366 Fax: 416-271-6373

Subscription Rates:

1 year (6 issues) \$28 Canada;
U.S.A.: \$38.00 Other countries \$50.00
Subscription enquiries: 222 Argyle Ave., Delhi,
Ont. N4B 2Y2, Tel: 519-582-2510.

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Postage paid C.P.O. Delhi, Ont.

NCC Publishing
Magazine Division
Head office: 222 Argyle Ave., Delhi, Ont.
N4B 2Y2, tel: 519-582-2510
Bart Crandon: Division General Manager
Florence Jacques: Circulation Manager



Volume 45 No. 2
May 1990

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Midway Manufacturing Company

Our cover story this issue focuses on the marketing approach of the makers of Bally pinball machines and Bally/Midway video games.

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Open house held by New-Way Sales

Operators and technicians mingled with manufacturers during the successful open house held at the new Toronto offices of New-Way Sales Company.

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Highlights of ACME '90

The American Coin Machine Exposition has come and gone once again. With pictures and reviews of equipment, we cover the show for you.

22

Universal cabinet survey

A look at what's available for the coin-op amusement operator from North American manufacturers of universal cabinets.

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Technical Tips

Columnist Jean-Guy Hardy offers some tricks and tips of the trade for dealing with pinball machine maintenance and repair.

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PERSPECTIVES

Summer rapidly approaches and operators are making decisions now as to what new product they will purchase from the spring lines unveiled by manufacturers. Much of their decisions are based on games from ACME '90, held in March. In our ACME wrap-up coverage and in the New Products section, hopefully you will find those games which will be winners for your operation.

From observations at the show and comments from many attendees, the amount of new games was less than previous years, but this does not have to be seen as a negative trend. With less choices, operators can make easier decisions on purchases.

One trend at the show we did note was the "action" surrounding all of the pinball manufacturers. They all had solid product and operators seemed to be impressed with what they saw and played. With 1990 actively being marketed by the

manufacturers and the AMOA pinball committee as the 60th anniversary of pinball, we may see a resurgence in interest with this type of game.

Our game poll continues (page 6) and from comments from operators at ACME and elsewhere, it is a popular addition to the magazine. In order for you to read it, however, we have to have the information from you to compile it. This is not an easy task. We need the data from you first before we can print any kind of accurate ratings. For years operators have been urging us to do this sort of poll. Now that we are, those same operators have to help. So, here comes our plea again: take a few moments after reading this and fill out the form at the bottom of page 6. Then send it to us. Now. We'll still be here when you get back. Thanks.

James Haley, Editor

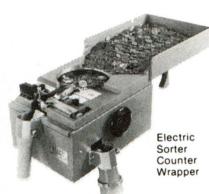
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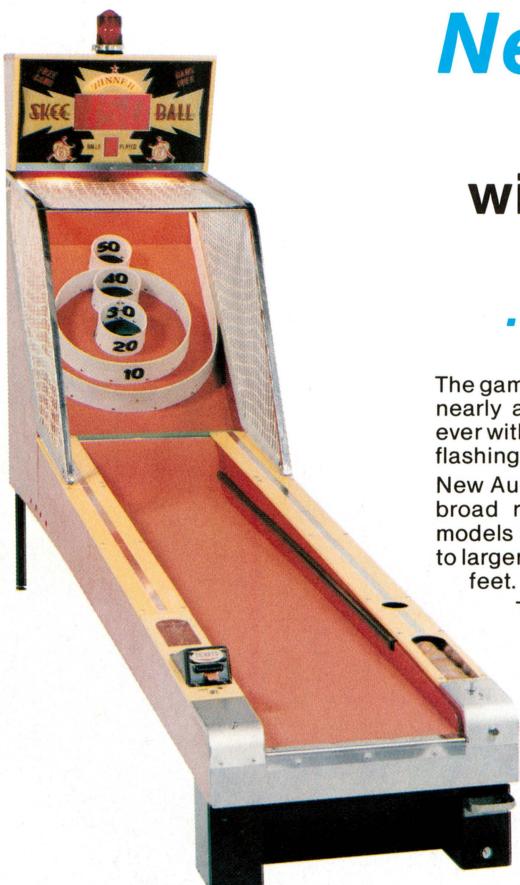
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scoreboard. (Mini Skee-Ball works the same way.)

A variation of the standard game is also available: *Bonus Ball*, with two more scoring pockets that can deliver 100 extra points per pocket.

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TOP TEN GAME POLL

An explanation

For this game poll we compiled results sent by operators on their opinions as to which were their top earning games, in three categories: dedicated video, video kits and pinballs. Each game was rated on a scale of 1 to 5, with 5 representing superior earnings. To the right are the results of this poll.

We invite all operators in Canada to participate in future polling. All you need do is fill out the form located at the bottom of this page and send the results by mail or fax to our editorial offices before June 8th. We also encourage comment on this poll. Perhaps there is information lacking you wish to have included, or a different way to compile the results. The only way we'll know is if you tell us.

RANK (-) Previous	TITLE (Manufacturer)	DEDICATED VIDEO GAMES RATING	MONTHS ON CHART
1. (2)	Hard Drivin' (Atari)	5.0	2
2. (1)	Teenage M.N. Turtles (Konami)	4.9	2
3. (3)	Off Road (Leland)	4.0	2
4. (9)	Operation Thunderbolt (Taito)	3.7	2
5. (-)	Klax (Atari)	3.0	-
6. (6)	Cyberball 2072 (Atari)	2.9	2
7. (-)	Mercs (Capcom)	2.7	-
8. (4)	Final Lap (Atari)	2.5	2
9. (8)	Chase HQ (Taito)	2.0	2
10. (-)	S.T.U.N. Runner (Atari)	2.0	-
VIDEO KITS			
1. (1)	WWF (Amer. Technos)	4.5	2
2. (4)	Final Fight (Capcom)	4.3	2
3. (2)	Golden Axe (Sega)	4.2	2
4. (-)	Golden Tee Golf (Strata)	4.0	-
4. (5)	Toki (Fabtek)	4.0	2
6. (-)	Aliens (Konami)	3.0	-
7. (-)	Buster Bros. (Capcom)	2.9	-
8. (-)	E.S.W.A.T. (Sega)	2.7	-
9. (3)	Crime City (Taito)	2.5	2
10. (-)	Cabal (Fabtek)	2.4	-
PINBALL MACHINES			
1. (1)	Elvira & the Party Monsters (Midway)	5.0	2
2. (3)	Earthshaker (Williams)	4.0	2
3. (-)	Whirlwind (Williams)	2.5	-
4. (6)	Bad Cats (Williams)	2.4	2
5. (-)	Robocop The Pinball (Data East)	2.2	-
5. (-)	Phantom of the Opera (Data East)	2.2	-
7. (4)	Mousin' Around (Midway)	2.0	2
8. (2)	Police Force (Williams)	1.9	2
9. (5)	Cyclone (Williams)	1.8	2
10. (10)	Jokerz (Williams)	1.8	2

Top Ten Game Poll For June/July: Return by June 8

Please fill out this poll as completely as you can and return by June 8 to Poll Results, Canadian Coin Box Magazine, 106 Lakeshore Rd. E, Suite 209, Port Credit, Ont. L5G 1E3 or fax to 416-271-6373. Your name and address are for verification purposes only.

TOP DEDICATED VIDEOS

Rank	Title	Pts
(1-5, 5 is superior)		
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

TOP VIDEO KITS

Rank	Title	Pts
(1-5, 5 is superior)		
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

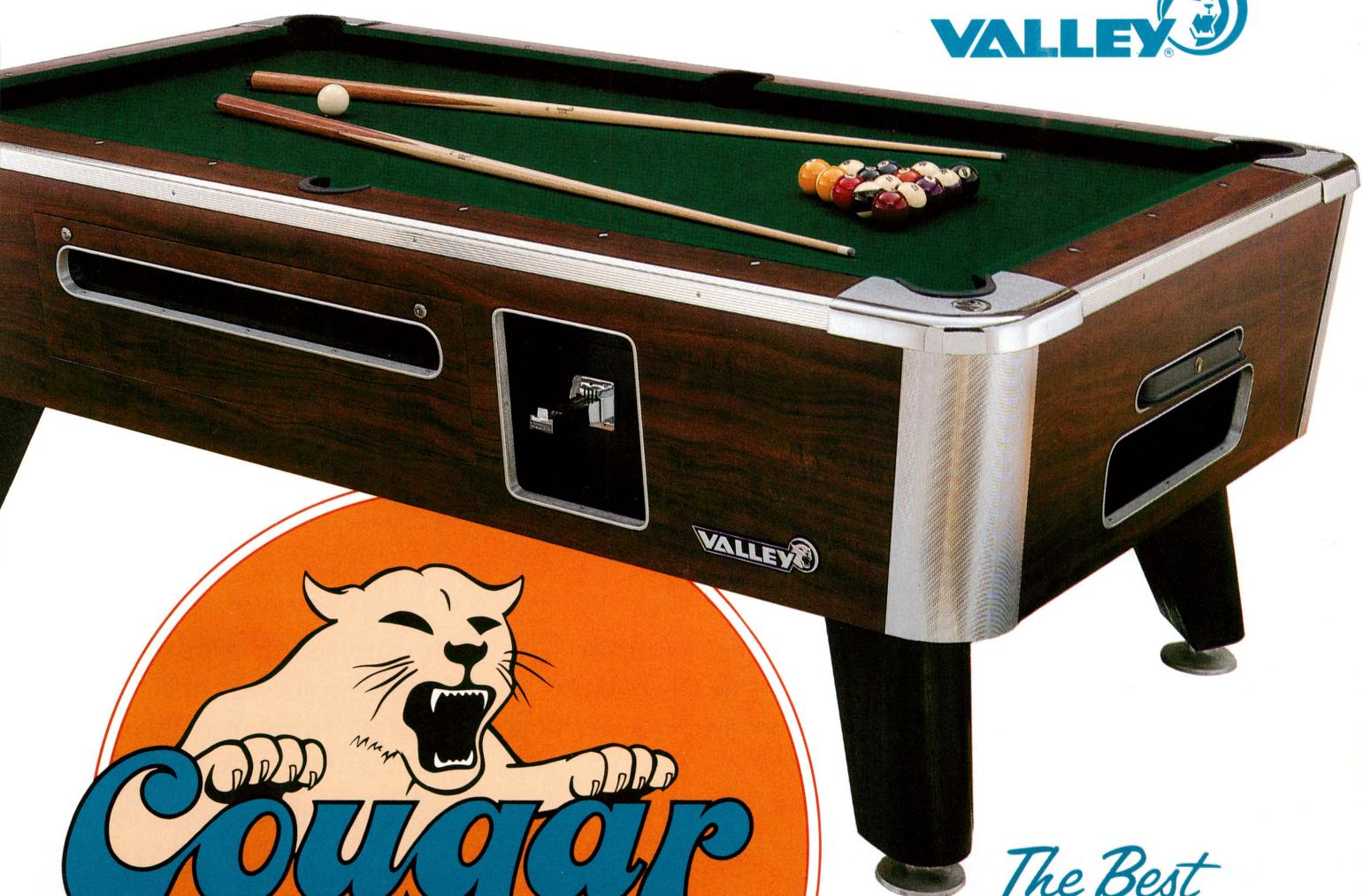
TOP PINBALL MACHINES

Rank	Title	Pts
(1-5, 5 is superior)		
1.		
2.		
3.		
4.		
5.		

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INDUSTRY NEWS

RCMP continue crackdown on counterfeit PCBs

The RCMP in Ontario continue their assault on operators of counterfeit printed circuit boards.

According to Bill Kidwell, director of investigations for the American Amusement Machine Association in Woodbridge, Virginia, "Since Canada's new copyright laws were enacted in June of 1988, the RCMP has been aggressive in its enforcement of the intellectual property rights of copyright owners."

A recent example of the RCMP's action in Ontario is the case of Ronald Nutt and his business, Nutt's Amusements. Nutt pleaded guilty to possession of 11 counterfeit PCBs—a criminal charge—and was fined \$1500 in Brantford, Ont. Charges were filed by the Federal Enforcement Section of the RCMP.

In other recent activities in Ontario, Kidwell and other AAMA investigators have assisted the RCMP in three investigations resulting in the

seizure of 98 counterfeit boards. Charges are pending in these cases.

"Most of the games seized have been older games, but none the less are still a violation of Canadian copyright law," said Kidwell. Recent investigations show a large number of legitimate new games, many more than have been discovered in the past. "This is an indication that the diligent work being done by the RCMP may be having an effect on the discontinued use of copy boards."

There have also been seizures of counterfeit boards in Timmons, Ont. where approximately 70 boards were taken and in Hamilton where 40 boards were confiscated.

Poara head arrested at ACME in Chicago

Yong Park, president of Poara Enterprises, Ltd. of Concord, Ont., was arrested during the ACME show in Chicago in March on charges of

copyright infringement and trafficking in counterfeit goods stemming from 1987. U.S. Customs agent Glen Eiden, who made the arrest, said the investigation is ongoing and additional charges may be laid at a later date.

Park, in a telephone interview, said the incident stems from three years ago, before Canada's new copyright laws were instituted, when he shipped two PC boards to Chicago. Since the new law has taken effect, his company has conformed to the law, he stressed. "I think it was a political thing," said Park referring to his arrest. "If not they would have to charge almost every Canadian businessman."

Park's lawyers are now in discussion with the U.S. Attorney's office. No court date has been set.

Video Invasion arcade continues successful movie tie-in promotions

March has been a fun month for promotion, according to Wayne Fromm of Video Invasion in Toronto, Ont.

Starting with 20th Century Fox's film "Nuts on the Run," Fromm arranged for an in-house photo set-up and advance screening ticket give-away. Video Invasion customers were invited to pose behind a mock "wanted poster." A Polaroid picture was given to each customer along with a movie poster and double movie pass. A donation of two dollars was made by each participant which was forwarded to the Children's Dream Foundation, a charitable organization.

The excitement built to a climax with a poster and ticket giveaway to the new, live-action adventure film "Teenage Mutant Ninja Turtles"! Green coloured tokens were scattered throughout V.I.'s token dispensers during the last two weeks of March. If a marked token was turned over to the staff, a poster and double movie pass were given to the lucky winner. Fromm noted the response to this film promotion far surpassed any of the past tie-ins that have taken place at his operation. The TMNT video game from Konami continues to be his highest grossing game, he said. □



VIDEO PROMOTED ON TV SHOW

INDUSTRY PROMOTED ON TELEVISION: New-Way Sales Company was busy promoting the coin-op amusement industry during March. New-Way and its operating division, Wizard's Castle, were sponsors of a Sega video game tournament. Wizard's Castle provided a sit-down Sega *Outrun* game to the popular children's show "Switchback" on CBC-TV. Even Mr. Wizard was there lending his expertise to the show which was seen throughout Canada and the northern United States.

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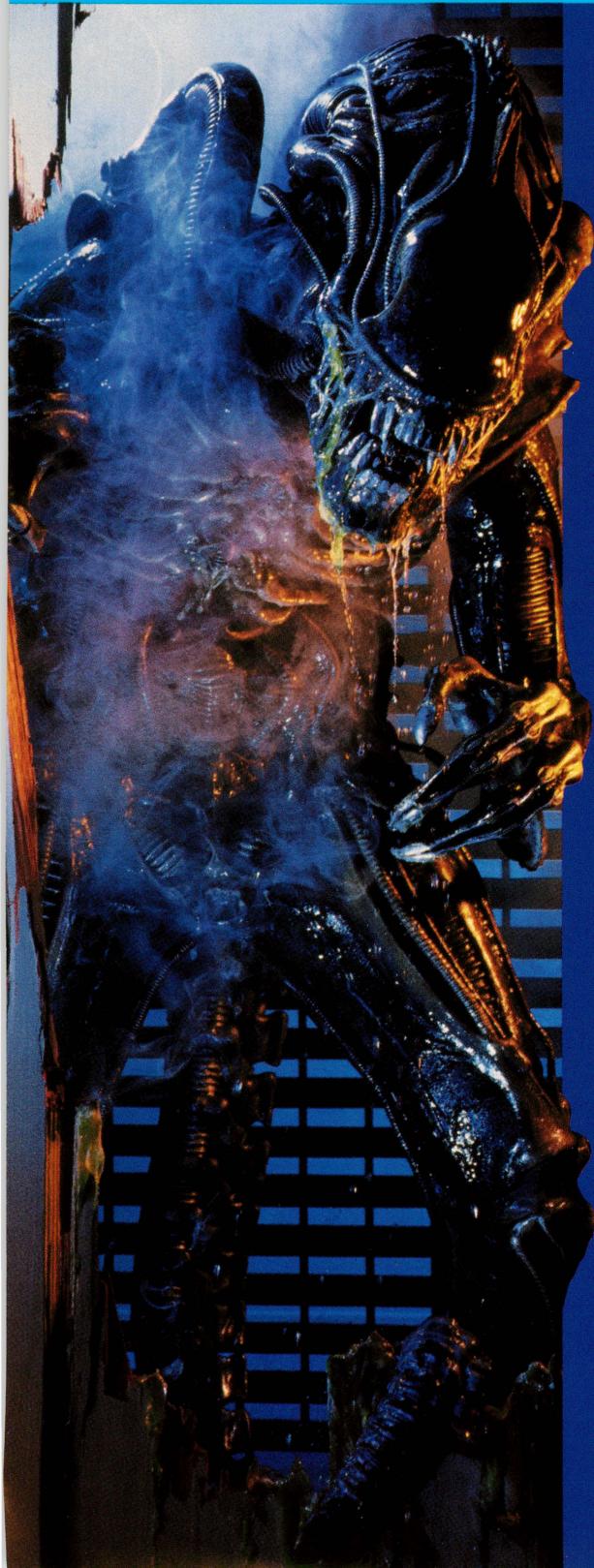
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Upon arrival at LV426 Acheron, the magnitude of the threat sinks in. The settlement is overrun with aliens, and you are expected to eliminate every one of them. The mission takes you through airways, elevators, underground waterways, and tunnel systems within the space colony. Along the way, you will encounter a multitude of species of alien creatures.

The situation gets worse, so you must get tougher. In addition to fighting the existing aliens, there are also incubation rooms and hatching grounds everywhere. You must dodge fatal electric shock waves, barricades, steam blasts, and dripping doses of alien acid in pursuit of your goal. The task of blowing away the aliens is aided with the use of such power weapons as missiles, triple bullets, flamethrowers, three-way shots, and bombs.

You proceed into the mother alien's lair, where she is hatching her larvae. After destroying her, you believe the mission is accomplished, and settle into the space ship for the long journey home. However, you soon realize that there is one more alien—and it's in your ship. In the last, most desperate fight, the fate of the universe depends on you. Will the alien win, and come back to your colony to wipe out all human life, or can you emerge victorious, destroying the alien and blasting its remains into outer space?



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COVER STORY:

MIDWAY MANUFACTURING COMPANY:

NOT JUST ANOTHER PINBALL MAKER

Makers of Bally pinball and Bally/Midway video games, this Chicago-based company has a long history of innovation and quality in their products

Midway Manufacturing Company's newest Bally pinball *Pool Sharks* has done what no other game in the history of pinball has ever done: it gives the player the option of playing two different games in one machine. It's that kind of design innovation that has always marked Bally pinball.

Many believe there is little difference between Midway and Williams Electronics Games because they are both wholly-owned subsidiaries of WMS Games, Inc. and share common facilities in Chicago. Not so, says Steve Blattspieler, vice-president sales and marketing for Midway Manufacturing Company. "We have separate design groups, separate engineering, separate sales and marketing. What we do have in common is our manufacturing facility. The product development is really a Midway process."

And their Bally pinball line has a long history of its own. "There's a distinct personality to Bally/Midway products, whether it's pinball or video. Bally pinball represents an incredible legacy to the entire industry, both here and abroad. Probably singlehandedly in the mid-1970s, Bally pinball helped resurrect all of pinball back into mainstream consumer marketplace, with the graphics, with the game action, with the innovation of being the cutting edge developer of solid state electronics. Today you have a renewed commitment and zeal to produce the best product anywhere."

In turn, Midway is aggressively marketing their new *Pool Sharks* pinball as a street piece and are backing it up with their commitment to the operator and location owner. "We strongly believe *Pool Sharks* is a superior street piece with long-term earning capabilities based on the fact that it's two different games in one machine. You can either play eight-ball or you can play nine-ball. The



A NEW PINBALL: Midway Manufacturing Company's vice-president Steve Blattspieler and Bob Lentz, sales manager, check out their newest pinball.

player gets to select what they want to play. There is a unique challenge within the context of this game. The best part is that it has been developed and designed with the greatest mass audience in mind."

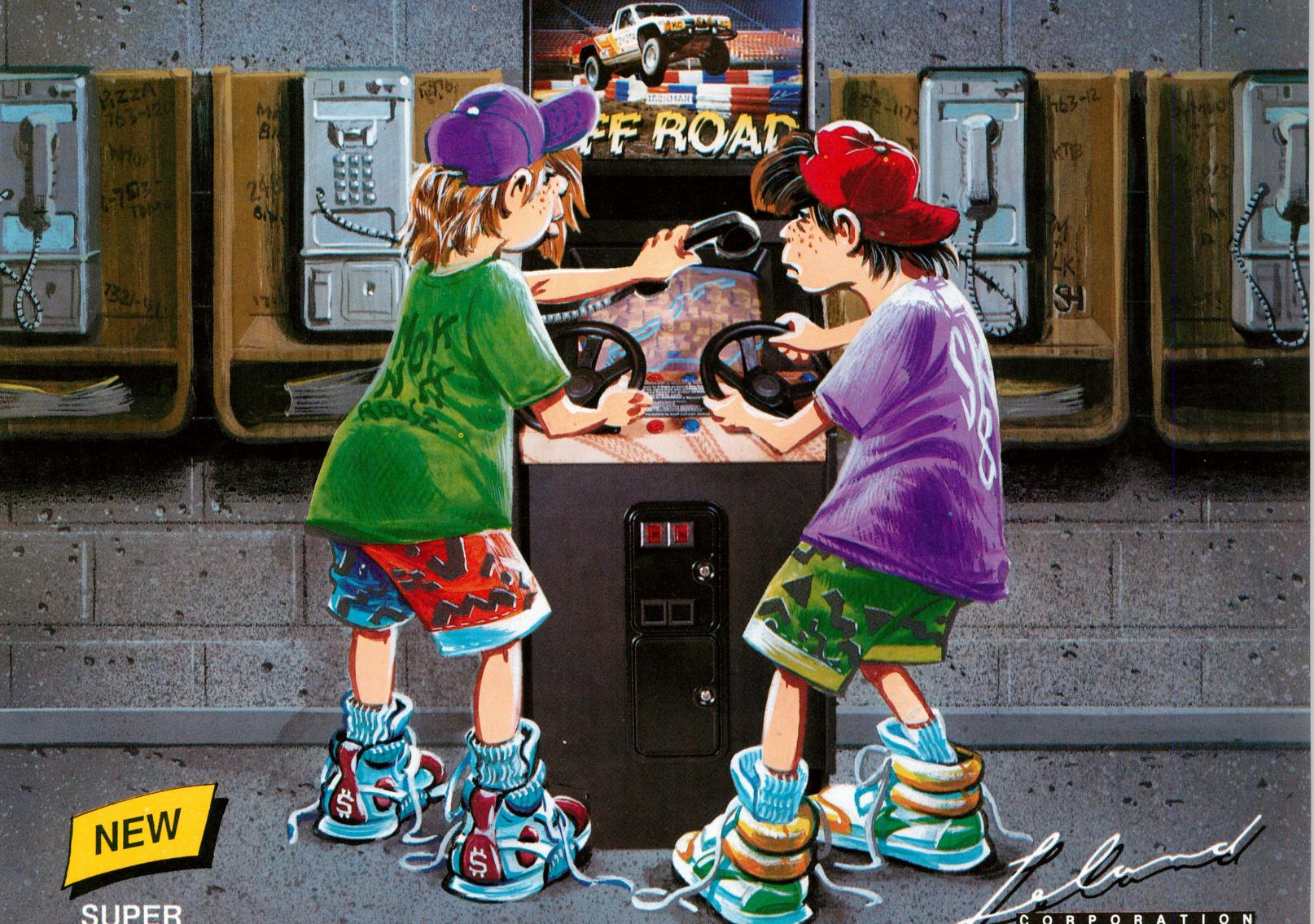


ON THE LINE: Workers put together the playfield for *Pool Sharks*.

Part of their marketing plans include promotional tie-ins to the games. "We do a lot of promotional items, there's a lot of merchandising done to promote our products," says Blattspieler. Items such as t-shirts, ball caps and even whole packages, such as for their *Arch Rivals* video game are developed in-house to support the distributor network, aimed specifically to help give added value to the end customer—the operator or location owner.

With Midway's *Pool Sharks*, caps are available to the distributors, for their operators, so that if they want to hold a promotion on site, they have these items specific to this machine that can help build traffic and can offer something special to that customer coming in the door. Gimmicks, however, are not going to sell the game. "We hope we can entice people to play our products because we are going to be offering these kinds of support materials through the distributor network, but number one, we are trying to be as receptive and as intuitive and as far-looking into the fu-

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ture as we possibly can to deliver product to the distributor. We are a product intensive business. The incremental things that we do above and beyond the product are all fine and dandy," says Blattspieler, "but the hard reality of the situation is: if you don't have a good product, all the ancillary items that you can put with it will probably not help punch it into the marketplace.

"In the pinball segment, product has become a total package and if you're missing any part of the packaging you only have a 80 or 90 per cent 'done' product, that's why we strive to have a 100 per cent package when we go to the marketplace. That's the thing that we deliver to the distributor."

The Canadian market can be a lot stronger in terms of a better understanding of customers on location and what their needs are, says Blattspieler. His company is not reluctant to get phone calls from people either through distributors or directly if people want to stage events and would like posters or bumper stickers or key rings or shirts or anything else. "We work with people. There are only two major manufacturers in the entire world of coin-op amusement games who do not have 'home market' marketing in mind—Midway Manufacturing Company and Williams Electronics Games. We are the only ones who have remained faithful and true to the operator. This is an essential ingredient for us. We know what

we do best here, for both companies, and that is to produce the finest coin-operated amusement games in the world. We remain true to that."

*"We strongly believe *Pool Sharks* is a superior street piece with long-term earning capabilities"*

— Blattspieler

The home market is a lucrative one, but when you see a *Arch Rivals* in the home, which you will see eventually we are told, it will be at least two years after it has been released because Midway's commitment is to remain faithful to that operator and allow him to make back all of his investment and then some. They don't want to cut him off in mid-stream.

Part of their success is in the manufacturing stage. "We have a separate manufacturing line within the same facility that Williams has, which went through a major renovation last summer," says Blattspieler. "It makes our manufacturing process not only more efficient but has some great quality control aspects; the end result is more consistent, with a higher grade of efficiency and a better product throughout the whole system."

Every pinball game coming off the line goes through four different test

stations and a minimum of 48 hours' burning in to make sure everything is working—lights, switches—no other company has that kind of dedication, he says. "We're a conservative company and the bottom line is to make available the best, most reliable product for that operator."

Consumers are aware and very much agreeable to playing pinball; the big thing now is to convert the operators and location owners into buying product that suits the demands and needs of players.

"There's been a philosophy that we have tried to maintain and that is we are trying to keep our equipment directed at the street operator," states Blattspieler. "Take the *Pool Shark* game, a traditional theme in a pinball that has proven to be an excellent theme in the past, is universally acceptable, and crosses all demographic lines, and *Tri-Sports* (the video game) has been developed along that line too. The arcade segment of our business is an important part but it does not make up the volume that the street location does. Consequently, product should be developed for the street location. If it is good in the street it should not preclude it from going in the arcade, but on the other hand, product that is good in the arcade isn't necessarily applicable to the street location."

Blattspieler is confident in Midway's games and its marketing. "*Elvira* was our first introduction into what I would call the new Bally, meaning the muscle and commitment behind the Bally line. It has made my job a lot easier and, followed up by *Mousin' Around*, *Tri-Sports* and *Game Show* and now *Pool Sharks*, let's just say I'm all smiles, I'm all smiles."

How does the future look for Midway? "We have a lot of product in the hopper being tested and we plan to bring it to market on a timely basis. We're planning 1992 stuff right now. We are very much committed to the future and our designs reflect that."

Distributing Midway Manufacturing Company's Bally pinball machines and Bally/Midway video games here in Canada are Laniel Automatic, New-Way Sales Company, Alberta Shuffleboards, and Canadian Coin Machine Distributors, Ltd.

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- Dimensions: 17" wide, 13½" high, 18¾" deep
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- Base available



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- N'attendez plus, commandez votre premier exemplaire immédiatement
- Aussi, modèle up-right, couleur bois naturel ou noir
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NEW-WAY HOLDS OPEN HOUSE

New-Way Sales hosts operators at their new facilities in Toronto

Over 250 operators, technicians and manufacturer representatives went through the doors of New-Way Sales Company during their open house and pinball clinic, held Saturday, March 24. The festivities were held to celebrate the official opening of New-Way's new Toronto offices.

According to Mark Bowden, sales rep for New-Way, over 100 attended the day-long pinball clinic. Giving pointers on their equipment were Peter Gustafson of Data East Pinball, Bob Wilson of Premier Technology and Tom Cahill, representing Williams Electronics Games and Midway Manufacturing Company, makers of the Bally/Midway line.

Guests from London to Ottawa to Sudbury mingled with manufacturing reps who were on hand to show their latest products. Companies attending included the four pinball manufacturers, Ameri Corporation, Fabtek, Capcom, Dynamo, Konami, Sega and Taito.

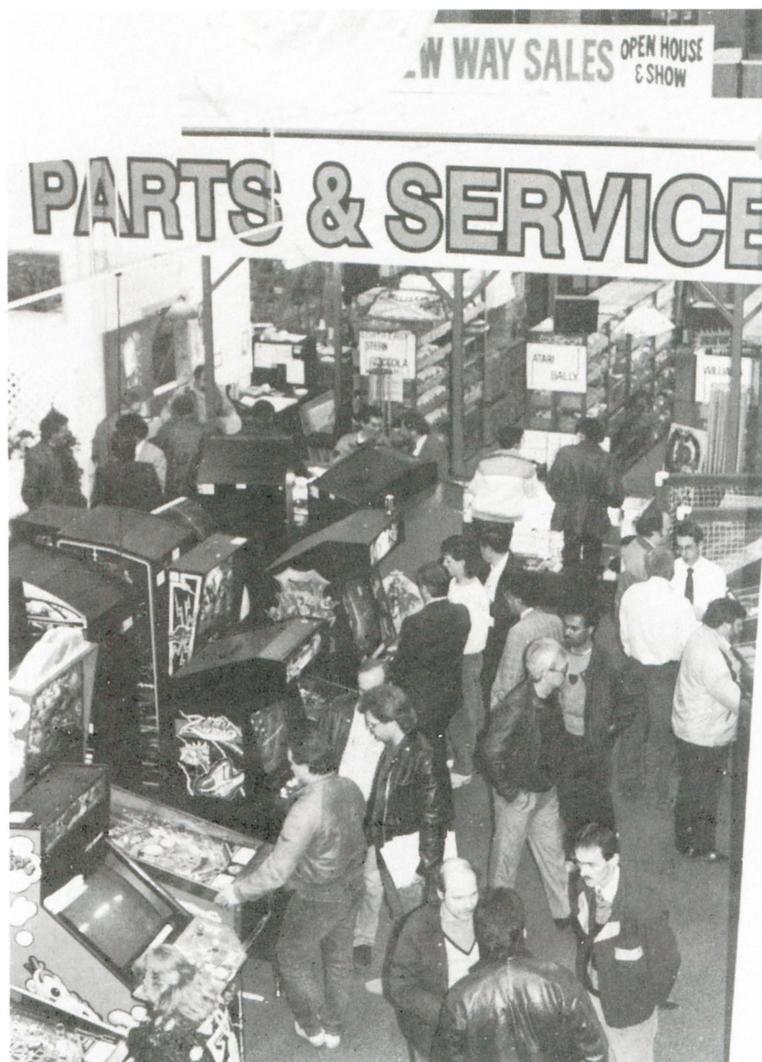
The buying trend among operators as determined by interest show at the open house, says Bowden, are "games people can't get for their home systems. Big dedicated pieces seem to be on the rise." He cited interest in simulators like *G-LOC* and *Galaxy*, as well as such new dedicated games as *Mercs*, *Trog*, *Battleshark* and, of course, pinballs. "We've received lots of orders for the new pins. *Phantom*

of the Opera and *Whirlwind* were big hits."

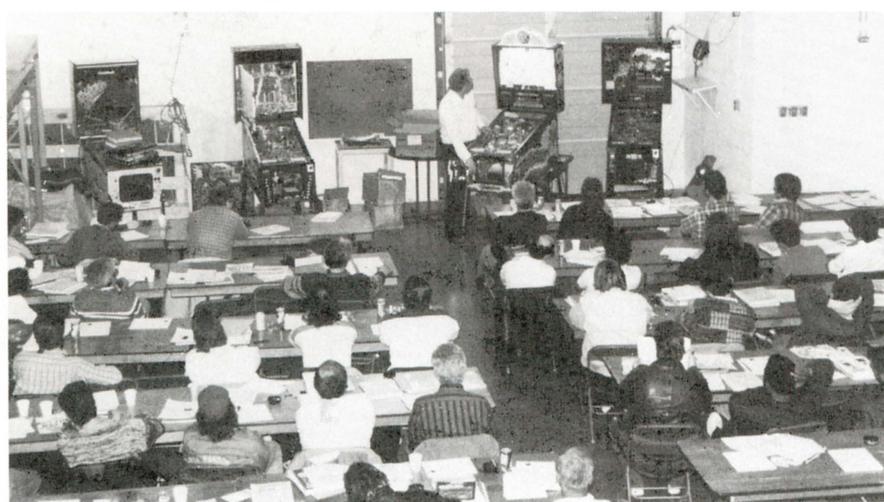
Prizes were also drawn for lucky operators. From the pinball clinic, Bill Sheppard of S&S Amusements, Markham, Ont., won a 20" colour TV; Marilyn Nutt of Nutt's Arcade, Woodstock, Ont. received a microwave oven and Pete Toplack of Amusamatic in Parry Sound won a VCR.

Door prizes were awarded to Ron Nutt, Nutt's Arcade and Rose Marie Lau of JAS Electronics, Scarborough.

In the near future New-Way will hold their "big" auction, to be held Saturday, May 12. All games will be location-ready and there will not be any copy boards or parallels. Available will be "North American



CROWDED SHOWROOM: Guests at the open house took the opportunity to try the new games.



PINBALL CLINIC: Operators listen intently to Tom Cahill as he tips them off to the workings of William's newest pin, *Whirlwind*.

originals, just like what we sell," says Bowden. "We want it to be an 'event' not just an operator swap-meet." New-Way will be advertising the auction heavily to try and garner interest from the home market as well. New-Way is also allowing their customers to move some of their equipment through the sale.

New-Way Sales Company is owned and operated by brothers Jerry and Paul Janda. Located at 77 Janda Court, Rexdale, Ont., they also maintain a western office at 18141-107th Ave., Edmonton, Alta. For information on the auction, contact Mark Bowden, 416-674-8000. □

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- Bloxeed Kit
- Whirlwind Pinball



WE'RE THE GAME PEOPLE PLAY

THE ACME '90 SCORE CARD

The spring show for the industry was a sell-out with attractive product on display for all

Contrary to what some American distributors and operators are experiencing, most Canadians are at least maintaining their revenues and increasing them in some instances, according to comments made by Canadian operators and distributors at the recent ACME show, held in March in Chicago. And Canadian distributors were ordering very heavy, considering the population base of this country, say American manufacturers.

As for the nuts and bolts of the show, according to Capcom V-P Bill Cravens, ACME convention chairman, numbers were up, he indicated, both in attendance and in booth sales. While traffic may have felt light, Cravens pointed out that the Chicago show had more "day visitors" rather than shows in Vegas or Reno, where the show had a captured audience for the entire time. For the manufacturers, Cravens said: "if they had good product they had a good show. Those with average product had an average show and those with poor product had a poor show."

Awards were given out during the show both by Playmeter magazine and the AAMA, co-sponsors of ACME.

From Playmeter, Atari Games and the Leland Corporation tied for best dedicated videos, while Sega won for kits and Williams for pinballs. Valley Recreation Products picked up the awards for best "other" equipment. From the AAMA sales achievement awards went to Atari for *Tetris* and *Hard Drivin'*; Fabtek for *Cabal*; Konami for *Crime Fighters* and Taito for *Chase HQ*, *Operation Thunderbolt*, *Superman* and *U.S. Classic*. Atari also received the Manufacturer of the Year award.

Some games garnered very positive reactions but some complained there wasn't much new product. What was favourably commented on were pinball machines from all four manufacturers. Their booths were seeing action throughout the show. Other games of note, included *Slick Shot* from Grand Products, a video/pool game and Bromley Inc.'s *Little Pro*, a sort of pinball/redemption game.

It seemed everyone had come up with a junior version of the basketball game for ACME. Coin Concepts had *Jr. All American*, Betson showed *Dribbles Jr. Basketball*, *Shoot to Win! Jr.* was available from Smart Industries and Design Plus had their *Bozo Bas-*



SLICK SHOT: Grand Products' Pierre Maloka demonstrates this unique game which combines pool with video.

ketball.

Another trend was the puzzle/mind teaser video game. Atari showed *Klax*,

CONTINUED ON PAGE 32



SEGA'S G-LOC: Tom Petit of Sega is all smiles as he stands beside the top-notch G-LOC cockpit model.



PINBALL WIZARD?: Mark Bowden of New-Way Sales in Toronto tries out Williams' Whirlwind.

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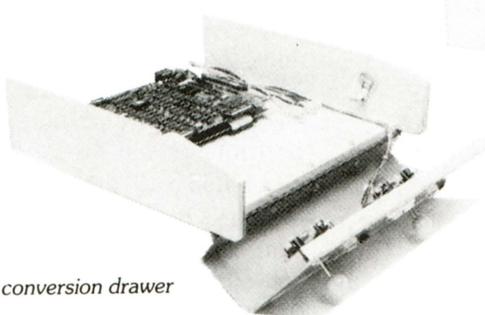
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CABINETS MEAN VERSATILITY

Universal video cabinets are indispensable to today's operator

Universal cabinets. For the operator, they are becoming indispensable with so many new games released in kit form these days.

Coupled with the high cost of dedicated games, many operators choose to buy both. They'll buy the latest rage—*Teenage Mutant Ninja Turtles*—in dedicated format because it is a winner but they will also buy kits, at a lesser price than a dedicated game, install them in their universal cabinets and put on location. When the game gets tired (in other words its weekly take drops significantly) then it's just a matter of changing the kit to have a new game for the patrons to try. And they can do this on location and not have to move the cabinets around.

The location is happy because they've got a new game to test their skills (and increase revenues) and the operator has installed a new item in a short time with less work required. And he can rotate the kit faster and easier than a dedicated format game.

In the marketplace today there are many manufacturers of universal cabinets. In this survey we have tried to include all of the major players and as many others as responded to our survey. The choice is now up to you.

(See pp. 24-28 for photos)

Amazing Games

2950 N.W. 29th, Portland, Oregon 97210; 503-222-3103, fax: 503-227-1305.

Distributor: Canadian Coin Machine Distributors, 108 - 3680 Bonneville Place, Burnaby, B.C. V3N 4T5; 604-420-4008, fax: 604-420-2474.

Joe Peck, President of Amazing Games, says some new features have been added to their Kit Interchange Systems (KIS). They include a durable plywood base platform to protect the bottom of the game cabinet, which is removable from the cabinet; a front service door for easier access to electronic components; and the power supply and isolation transformer have been moved to the front of the cabinet for easier serviceability. Peck notes this last feature eliminates any need for these components to be located in the drawer.

Dynamo Corporation

2525 Handley-Ederville Rd., Richmond Hills, Texas 76118; 817-589-7699, fax: 817-284-7606.

Distributors: Laniel Automatic, 151 Rockland Rd., Montreal, P.Q. H3P 2W3; 514-731-8571. New-Way Sales, 77 Janda Ct., Rexdale, Ont. M9W 6V2; 416-674-8000. T.W. Gilchrist Vending Ltd., 50 Eugene St., Toronto, Ont. M6B 3Z4; 416-256-0377. Starburst Coin Machines Inc., 717 Kipling Ave., Etobicoke, Ont. M8Z 5G4; 416-251-2122. Pacific Vend Distributors, 8250 Fraser St., Vancouver, B.C. V5X 3X7, 1-800-663-5953. Alberta Shuffleboards, 10331-178th St., Edmonton, Alta. T5S 1R5; 403-486-GAME.

Dynamo is perhaps the premier cabinet manufacturer with their impressive Benchmark, Signature and Cocktail series. Dynamo systems have "years of performance, proven on location" and come in 14 different configuration—a cabinet for any and all purposes. Features for the Benchmark series include monitor controls positioned up front for adjustments, a solid back panel for strength and one-piece wrap-around t-moulding and leg levellers.

The Signature series is designed to allow the operator to "customize" the right features for their specific application while remaining compatible with HS-2 models. Features of note are a removable, plywood pedestal, melamine surfaces, and industry standard over/under coin doors, among others. Operators can choose between the standard Well-Gardner monitor or an economy model. The monitors tilt out for adjustments and service and the cabinets for the 19" and 25" monitors are the same size for consistency on location. A cabinet with a 27" monitor is also available. This series also has Dynamo's most recent innovation—the Power Plus, a power supply of 150 watts, 15 amps at 5 volts which increases capacity for growth.

East Coast Design

A division of Joel Mfg. Co. Inc., 700 Reading Ave., P.O. Box 681, Hammonton, N.J. 08037; 609-567-1700.

Distributor: Current Marketing, 190 Marycroft Ave., Unit 5, Woodbridge, Ont. L4L 5Y1, 416-856-0141, or directly through manufacturer.

East Coast Design's UV Universal Hardware System has its emphasis on strength and durability, according to Gary DuBoff. Available with either a 19" or 25" monitor, the UV series is constructed of melamine-laminated fibreboard with lift-and-lock slide-out drawer, interchangeable components and a tubular steel inner frame. Their new UVC 13/19 universal poker cabinet is made with carriage bolts and a steel inner frame making it perfect for shipping either knocked down or set up, he says. It will house either a 13" or 19" monitor with no rear extension. In addition, the cabinet is smaller, and its more compact size makes it perfect for those locations not able to accommodate a standard sized cabinet.

Grand Products, Inc.

425 Meyer Rd., Bensenville, Illinois 60106; 708-766-8282, fax: 312-766-6688.

GP's Universal Video System has the "works in a drawer," and can display its monitor in four different positions: laid down 64° vert. or horiz., upright 15° vert. or horiz. Made from 3/4" plywood (front, sides and bottom) with tongue and groove construction it can hold a 19" or 25" monitor. Other features include metal fluorescent light assembly, speaker, over/under coin door and cash vault with acceptors and rear wheels for ease of movement.

Jaleco USA, Inc.

310 Era Dr., Northbrook, Illinois 60062; 708-480-1811, fax: 708-480-9231.

Distributors: Banco Canada, Inc. 601 McCaffrey, St-Laurent, P.Q., 514-343-4883, fax: 514-323-2266; New-Way Sales Company, 77 Janda Ct., Rexdale, Ont. M9W 6V2; 416-674-8000.

The Lo-Pro, standing just 48" high, is ideal for the arcade location, where operators can place it in the middle of the floor without obstructing their view of other parts of the location. Jaleco has come up with a new Lo-Pro 25" cabinet (52" high) in addition to their 19" in response to requests from customers, shipping in June of this year. Both models will have the

CONTINUED ON PAGE 55

P.V.A. INC.

MANUFACTURER

- **Melamine Panel** (anti-scratch) 11/16" and vinyl edging
- "Hantarex" Monitor can be mounted vertically or horizontally.
- "Coin Mechanisms" heavy duty coin door with string cutter
- Heavy duty power supply 11 amp.
- Custom models or partially built on request

Up Right
13"/19" monitor
Height 59½"
Width 23"
Depth 28½"



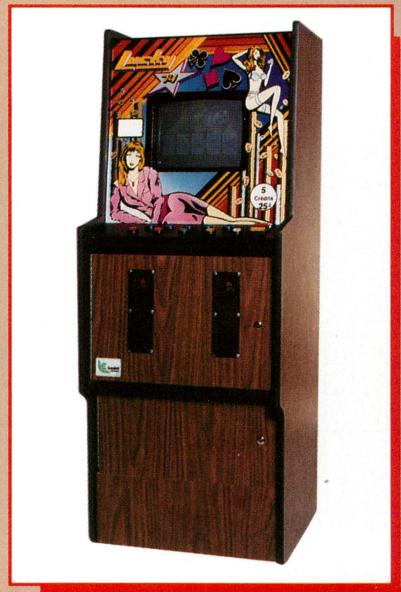
Bar Top
9" monitor
Height 15¼"
Width 17¼"
Depth 20½"



Mini Up Right
13" monitor
Height 60"
Width 20½"
Depth 24½"



Up Right
13" monitor
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Width 23"
Depth 24½"



- **Melamine Robuste** (anti-égratignure) 11/16" avec moulure de vinyl
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UNIVERSAL CABINET CATALOGUE

A survey of universal cabinets currently available from North American manufacturers



AMAZING GAMES

KIS VIDEO GAME SYSTEMS

KIS 19: 19" Wells-Gardner monitor, all-plywood with laminated plastic finish, slide-out drawer, metal control panel positioned for 1 or 2 player diversity.



AMAZING GAMES

KIS VIDEO GAME SYSTEMS

KIS 25: 25" Wells-Gardner monitor, all-plywood with laminated plastic finish, slide-out drawer, metal control panel positioned for 1 or 2 player diversity.



DYNAMO CORPORATION

BENCHMARK SERIES

HS-2: 19" Wells-Gardner monitor with slide-out drawer, all-plywood front wall and floor, universal control panel. (HS-1 not shown, same as HS-2, without drawer).



DYNAMO CORPORATION

BENCHMARK SERIES

HS-5: 25" Wells-Gardner monitor with slide-out drawer, all-plywood front wall and floor, universal control panel.



DYNAMO CORPORATION

SIGNATURE SERIES

HS-9: 25" monitor, slide-out drawer, universal control panel, plywood pedestal, particle board roof/sidewalls. (HS-9A has plywood roof/sidewalls.)



DYNAMO CORPORATION

SIGNATURE SERIES

HS-8: 19" monitor, slide-out drawer, universal control panel, plywood pedestal, particle board roof/sidewalls. (HS-8A has plywood roof/sidewalls.)

Now the Universal-Four Canada accepts the new dollar coin



Universal-Four set at \$2.00



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Accepts up to 4 Canadian dollar coins!



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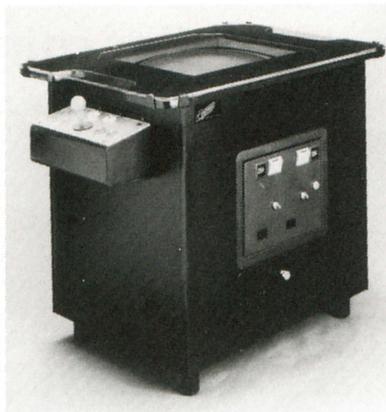


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UNIVERSAL CABINET CATALOGUE



DYNAMO CORPORATION COCKTAIL SERIES

HS-6: 19" Wells-Gardner monitor can be positioned vertically or horizontally, tempered safety glass, all-plywood cabinet. Available as rectangular top (shown), round top with pedestal or square top.



EAST COAST DESIGN UNIVERSAL 'POKER-STYLE' HARDWARE SYSTEM

UVC-13/19: Uses 13" or 19" Wells-Gardner monitors, slide-out drawer with quick change control panel, carriage-bolted steel frame, selected colours.



EAST COAST DESIGN UV SERIES

Melamine laminated 3/4" fibreboard, accepts 19" or 25" monitor, "lift and lock" slide-out drawer, carriage-bolted steel frame with mounted casters, 9" deep control panel.



GRAND PRODUCTS INC.

UNIVERSAL VIDEO SYSTEM

3/4" plywood painted cabinet, universal mount 19" or 25" monitor, works in a drawer, tempered monitor and marquee glass, plastic monitor bezel, rear wheels, steel leg leveler plates.



JALECO USA, INC.

Lo-Pro: Just 48" high, 19" Wells-Gardner monitor adjusts for vertical or horizontal play, adjustment board mounted in drawer, two blank panels for 1 or 2 joystick controls. Also available with 25" monitor, stands 52" high.



KD INDUSTRIES

Video Kit-Kabinet: All-plywood, uses 19", 25" or 27" monitor, removable interchangeable slide-drawer, rear steel corners w/ enclosed 3" wheels, rear and bottom handcups, side bumpers, black or white plastic finish.

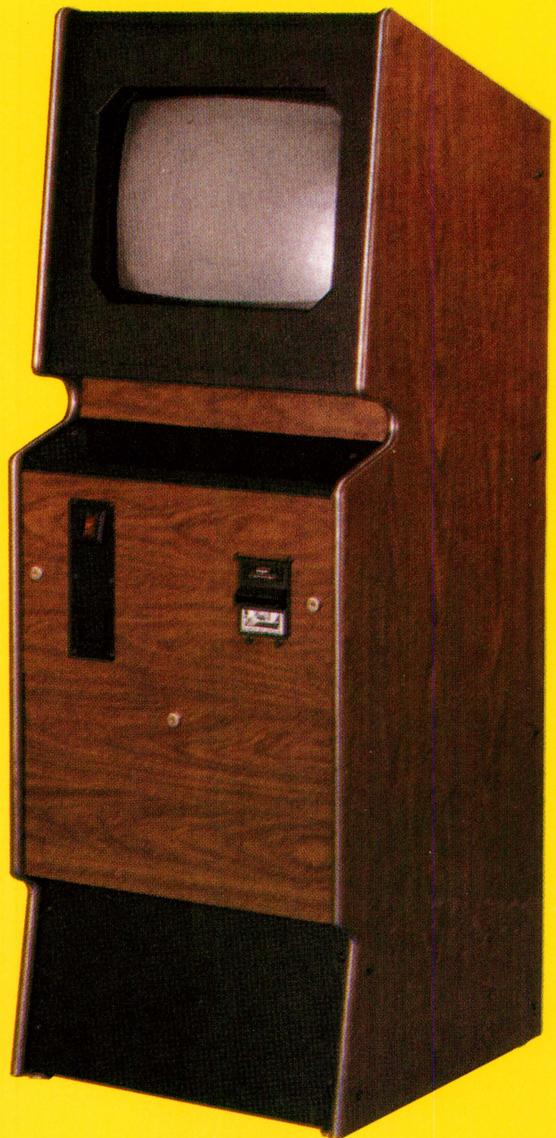
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- * *Accommodates both 13" and 19" Monitor - with no rear extension*
- * *Carriage bolted steel frame - allows for easy replacement of all parts*
- * *Rear door for easy access to monitor*



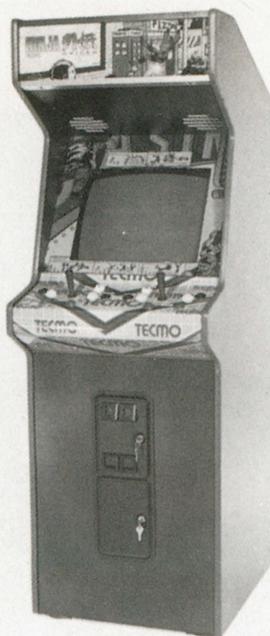
*Exclusive slide-out drawer
with quick change
control panel*



UVC - 13/19

- * *Selected colors available*
- * *All laminated components*
- * *Front mounted coin mechanism*
- * *Welded levelers*

UNIVERSAL CABINET CATALOGUE



M.H. ASSOCIATES

MHA C1025: Melamine, thermofused white or black cabinet, universal control panel w/ pre-drilled holes, works in-a-drawer, rotatable monitor for hor. or vert., extra-large leg levelers, two built-in cooling vents.



PLATEAU, INC.

THE ANGLE SYSTEM

19" or 25" monitor, all-plywood and high pressure laminate. New mechanism allows 19" or 25" monitor in same cabinet to swing out in vert. or horiz. position for easy access.



P.V.A. INC.

(a division of Laniel Canada Inc.)
Upright 13/19: Melamine panel 11/16" (anti-scratch), vinyl edging, 13" or 19" Hantarex monitor, vertical or horizontal mount, front drawer system and interface wiring board.



P.V.A. INC.

(a division of Laniel Canada Inc.)
Bar Top 9/10: Melamine panel 11/16" (anti-scratch), vinyl edging, 9" or 10" Hantarex monitor, vertical or horizontal mount, front drawer system and interface wiring board.



P.V.A. INC.

(a division of Laniel Canada Inc.)
Mini-Upright: Melamine panel 11/16" (anti-scratch), vinyl edging, 13" Hantarex monitor, vertical or horizontal mount, front drawer system and interface wiring board.



P.V.A. INC.

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Upright: Melamine panel 11/16" (anti-scratch), vinyl edging, 13" Hantarex monitor, vertical or horizontal mount, front drawer system and interface wiring board.

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Designed by the operator for the operator



Excaliber Video Kit Kabinet™

The cabinet of the 21st century. It's innovative design gives it a life expectancy in excess of 10 years.

Interchangeable and replaceable panels makes this cabinet convenient and versatile.

The Kit-Kabinet accommodates 19", 25" or 27" monitors. Although with its unique space saving design its only 3" wider than a standard 19" video cabinet.

Light weight quality plywood construction lowers the base cabinet weight to only 180 pounds.

The most space saving design of all large monitor cabinets. Ideal for all street and arcade locations.

This unique, versatile Kit-Kabinet is designed to increase profitability in the competitive kit marketplace.

Special Features

- Removable and interchangeable slide-drawer system.
- Accommodating a 19", 25" or 27" monitor vertical or horizontal.
- Stronger than standard cabinets. Made of 100% high-quality durable plywood.
- All parts interchangeable or replaceable if damaged. Versatile enough that it can accommodate recycled parts from older machines.
- Rear steel corner protectors with enclosed 3" wheels for easy mobility.
- Handcups on the rear and bottom of the cabinet make for ease of vertical movement.
- Side impact bumpers for added protection, on location or in transit.
- Base model cabinet or fully loaded cabinet available.
- High pressure plastic finish available in Black or White.



Call KD Industries for more information

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PEOPLE

Greenhut named chairman, CEO of Rowe

Arnold S. Greenhut has been named Chairman and Chief Executive Officer of Rowe International and its parent R.I. Holdings, succeeding Bruce Cowles who has announced retirement plans.

Greenhut has over 25 years of senior management experience across a wide variety of industries. During this period he was also responsible for, and participated in identification, analysis, negotiation, integration and financing of acquisitions and mergers of companies with total sales in excess of \$2 billion.

He has served in a senior capacity with such companies as Litton Industries Inc. and Gulf + Western Industries Inc. Greenhut is currently a director of Trans World Music Corp.

A licensed professional engineer, Greenhut holds both Bathcelors and Masters degrees in Industrial Engineering.

Rowe International, Inc., of Whippany, N.J., manufactures and markets juke-boxes, currency changers and vending machines.

Veteran Bernie Powers joins Merit Industries

Industry veteran Bernard Powers, formerly of Bally Manufacturing Corp. and Arachnid Inc., has joined Merit Industries as Director of Marketing. He spent the '70s and most of the '80s with Bally.

"His experiences with Bally closely correlate with where Merit markets its products today," says Merit's president, Peter Feuer. "Having experience with both gaming equipment and amusement games makes for a good fit in our organization."

Powers is not only an industry veteran but has an exceptional educational background with Bachelor degrees in marketing and management as well as a Masters degree in business administration. Last year he was



POWERS

honoured in the state of Illinois with three awards of excellence in exporting.

Powers has lectured extensively on subjects related to International Marketing. Articles have appeared in newspapers and international business on a regular basis. He has also appeared on several business talk shows relating to international marketing, business management and marketing in general.

"Merit is involved with the international marketplace. I trust my involvement will only enhance Merit's position," says Powers.

He will be relocating to Pennsylvania with wife Judi and four daughters.

Two more join Merit's production team

Merit Industries has hired Louis Bonatelli as Manufacturing Manager and George Del Casale as Quality Assurance Manager.

Bonatelli was involved with production and quality control management in military electronics as well as medical and commercial electronics prior to his appointment at Merit. His main goal is to increase the efficiency of the production effort and at the same time increase the quality of products being manufactured.

Distributors can expect to see a better delivery time in the completion of their orders and operators will find that most of the field problems have been eliminated. "Lou's commitment to tight control and superior quality is what is essential to us at Merit for our commitment to our customers," says Don DeVale, vice-president of engineering.

Del Casale comes to Merit with a BS in electrical engineering and 30 years experience in the electronic industry. He was previously employed with companies such as Unisys Corporation and General Electric.

"The employment of George Del

Casale as a professional, experienced in high level quality assurance management, emphasizes our determination to banish complacency and establish quality as the number one concern of every member of our firm," says DeVale.

Del Casale will be directly responsible for the quality assurance of all Merit products. He plans to utilize total systems from Vendor Qualification Testing to ensure manufacturing is being performed in accordance with engineering design requirements, and Final Test Performance, demonstrate that all games stand up to the commitment of excellence that Merit has established.

Merit Industries, Inc. of Bensalem, Pennsylvania manufactures and markets electronic darts and video card games.



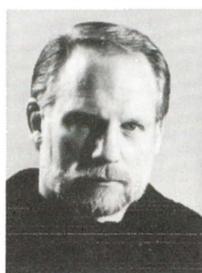
BONATELLI

Faris returns to pinball

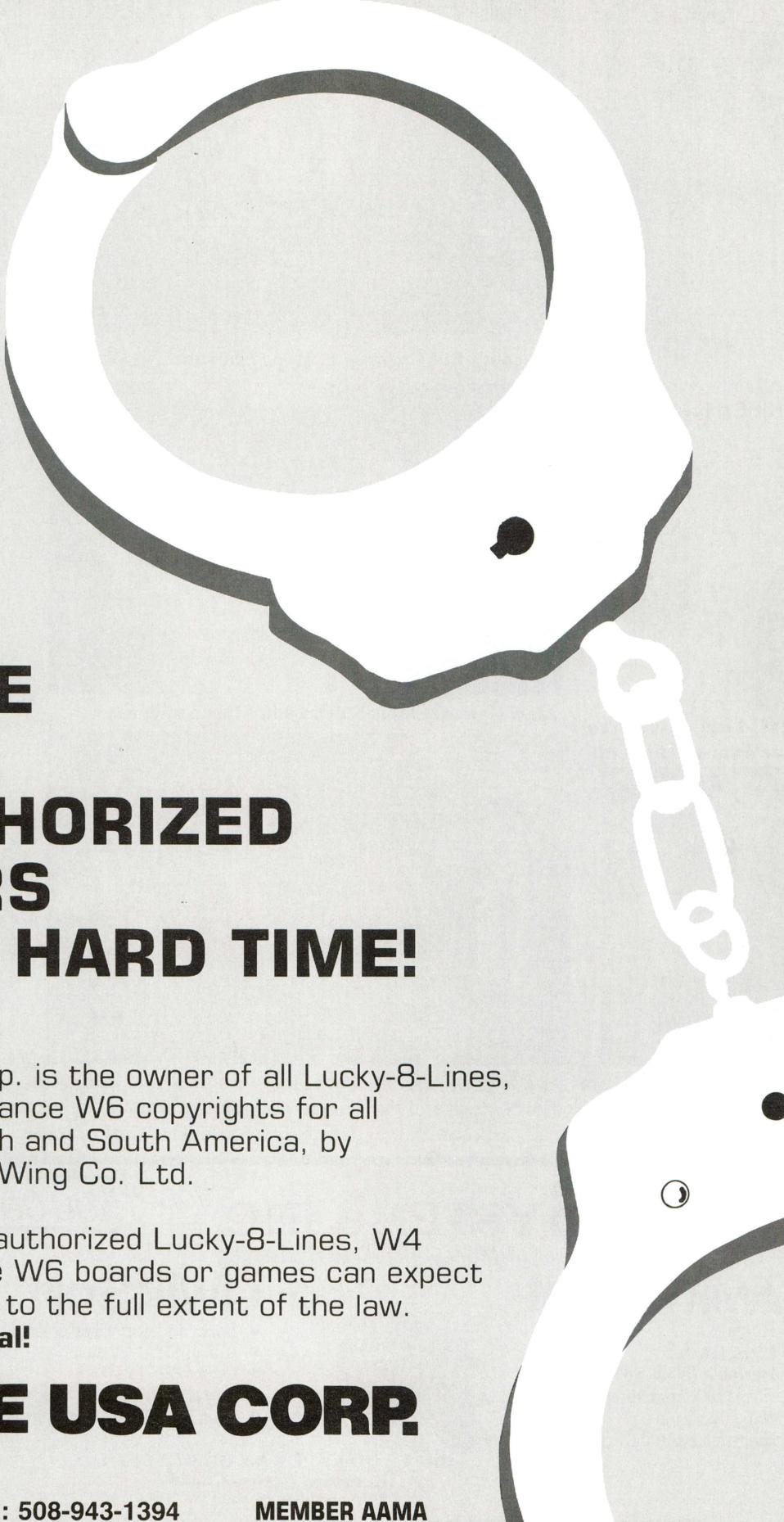
Paul Faris, director of art at Bally during the early 1980s, completed the artwork on Data East Pinball's newest flipper, *Phantom of the Opera*, his first pinball in five years.

In addition to directing the art efforts in Bally's pinball heyday, Faris personally did the art on the classic *Lost World*, as well as *Paragon*, *Xenon*, *Space Invaders* and *Centaur*. His return with *Phantom* introduces a new backglass screening technique allowing FARIS a shielded image to appear and disappear before the player's eyes.

Faris is currently working on as-yet unannounced projects for Data East Pinball, which is located in Melrose Park, Illinois.



Send your notices and photographs for inclusion in this section to: People Editor, Canadian Coin Box Magazine, 106 Lakeshore Road East, Suite 209, Port Credit, Ontario L5G 1E3. □



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MEMBER AAMA



Andy Berglund and KD Industries' Kit-Cabinet.



Rich Griffiths, Frank Lostracco, of Game Time Amusements Ltd.



Martin and Lauren Bromley of Bromley Inc. showed Little Pro.



Capcom's Bill Cravens, Y. Mong Chui and Pat Walton.



Atari Games' Elaine Shirley and Mary Fujihara.



Amazing Games' Joe Peck shows his universal cabinet to Jim Niblock and Par Bassan of Canadian Coin Machines.

CONTINUED FROM PAGE 18
American Technos continued with *Block Out*, Fabtek had *Sports Match* and Sega presented *Bloxeed*.

Pinballs

Data East was heating up the show with their impressive *Phantom of the Opera* with solid-state flippers. The graphics, sound and features on this game keep the booth packed solid throughout the show.

Midway Manufacturing Company showcased *The Bally Game Show* with a light-hearted TV theme.

Premier Technology had their *Lights . . . Camera . . . Action!* incorporates a player interactive backbox animation as well as a new electronics package. Premier also introduced their first "SL" pinball, for the street location, *Silver Slugger*, based on baseball. This line is intended to be simpler in design and easier to play for the street. Efficiencies in design and manufacturing, says President Gil Pollack, have enabled the company to "significantly reduce the price of the game — by hundreds of dollars."

Williams again came up with a solid pin — *Whirlwind*. With fans set on top of the backbox and rotating discs on the playfield, this one is already moving up the charts.

Video games

American Sammy's new kit *DJ Boy* with the voice of Wolfman Jack held the operators' interest.

American Technos again showed *WWF Superstars* and *Block Out*.

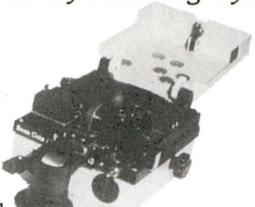
Ameri Corporation had their *AmeriDarts* game showing, a video dart game that offers something different for the player than the

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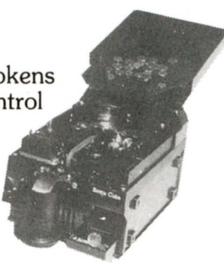
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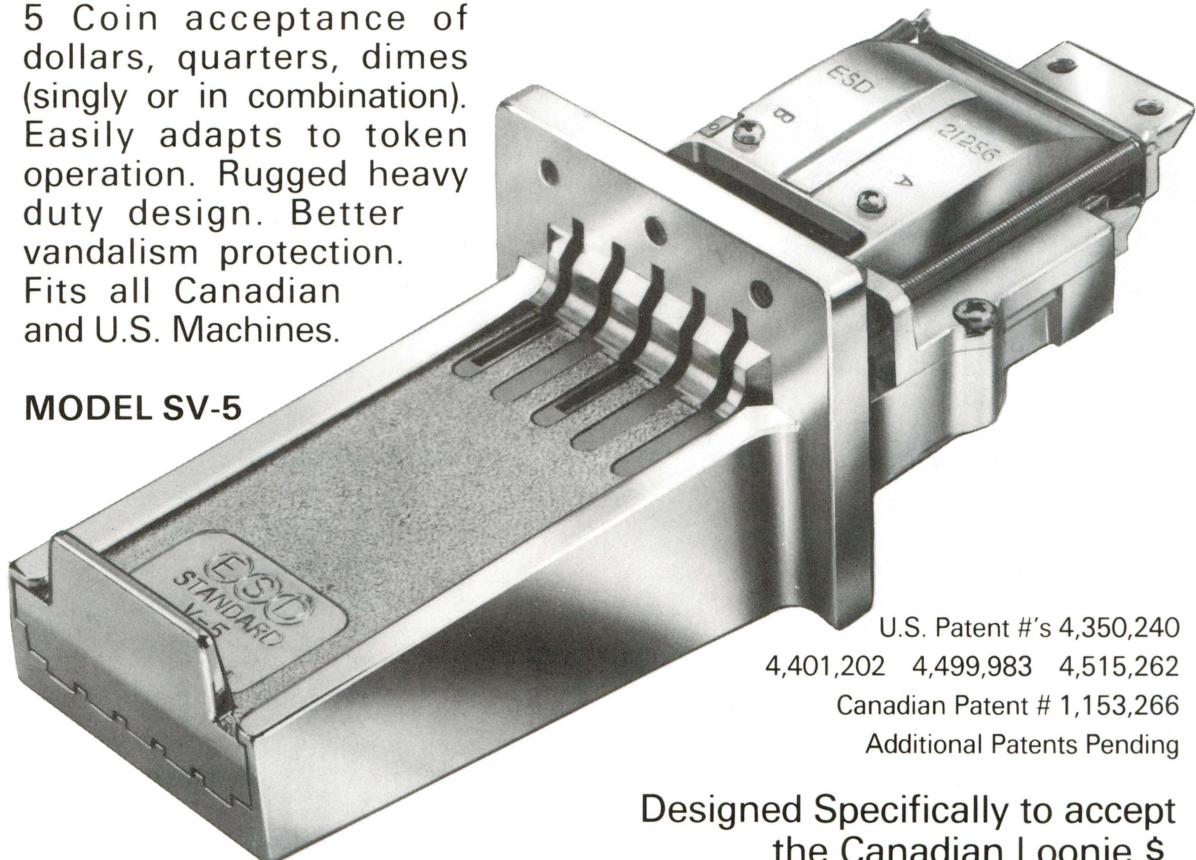
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Taito's Joe Dillon stands with Uwe Cistransen and Hans Kloss of Bally Wulff.



Larry Berke, Darlene Lams and Jim Prokop of Jaleco show off their Big Run game.



John, Amy and Mike McEwan, and Roy Nishi of Meltec with their new game Lunar Golf.



The team from Merit Industries: Glenn Remick, Mort Ansky, Mirielle Chevallier, David Rubinstein and Bernie Powers.



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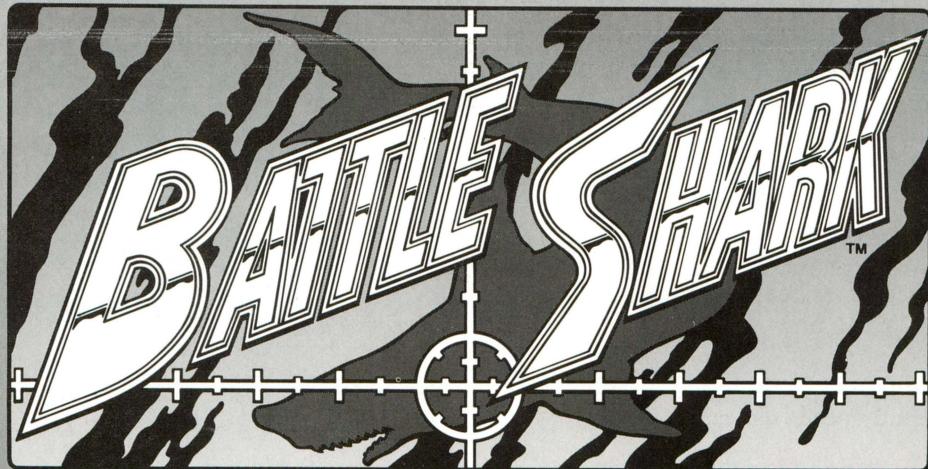
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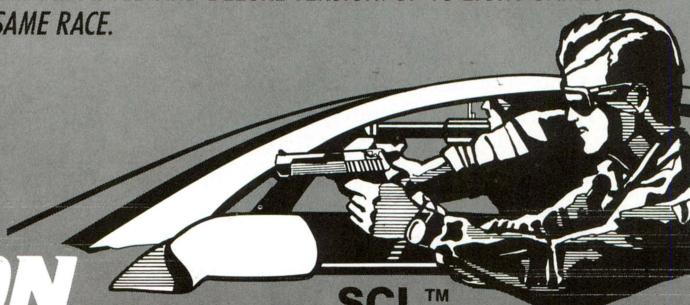
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prevalent kick and punch games.

Atari Games had solid product with *Badlands*, *Skull & Crossbones*, *FourTrax* and *Klax*.

Belam is the exclusive distributor for Sega's Mega Tech system, with a menu of eight games, which will grow as demand increases.

Capcom had a winner with their new CPS game *Mercs* with a 25" monitor, following in the successful footsteps of *Final Fight*, also shown.

Data East presented *Two Crude*, a fighting game, and *Vapor Trail*.

From Fabtek, there was the *Sports Match* kit. For those who like puzzles, this is a solid game. They also had *RaiDen*, a space shooting game in kit form.

Gametek were still taking orders for *Wheel of Fortune*.

Irem showed *R-Type II*, *Dragon's Breed* and *Air Duel*.

I-VICS, a new firm licensing games from Japan, offered their first—*Meta Fox*, a flying game.

Jaleco had *Big Run* and *Astyanax* and new baseball and soccer games, as yet unnamed.

Konami rolled out *Turtles* again and their new *Aliens*, a battle game based on the movie.

Leland showed a two-player *Super Off Road* and its *Track Pak* with eight new tracks.

Midway offered *Trog*, a popular item at the show and their *Tri-Sports* which has pool games, bowling and golf.

Nintendo's Playchoice system was solidly in place at ACME, with over 40 games and several configurations available, not the least of which are *Rescue Rangers* (from Disney), *Ninja Gaiden II The Dark Sword of Chaos*, *Super Mario 3* and *Teenage Mutant Ninja Turtles*.

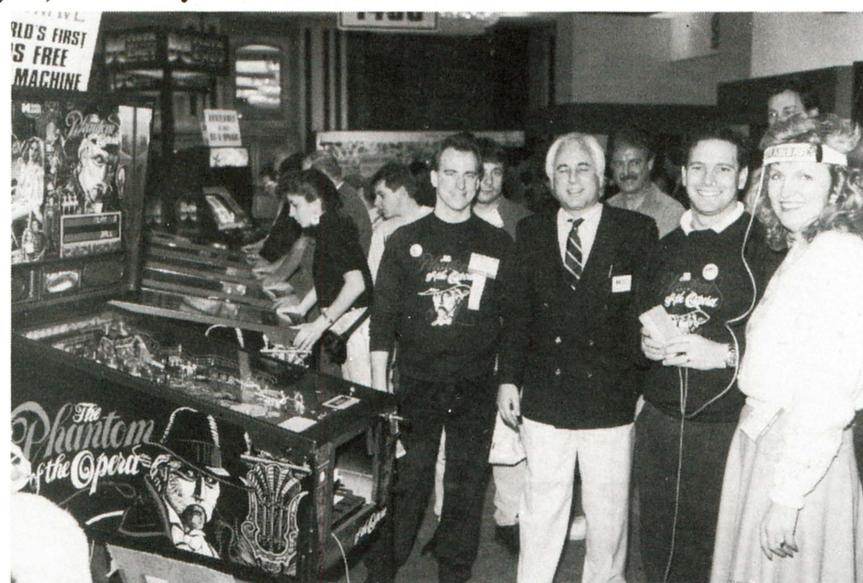
Premier had *Exterminator*, first shown at an AMOA Expo suite.

Romstar showed several items: *Rambo III*, *Caliber 50*, *Snow Bros.*, *Toaplan* and *Fire Shark*. Of these *Snow Bros.*, a kit, seems to be the most impressive with 50 screens, where snowball fights are the order of the day.

Sega exhibited their new games *G-LOC*, *Alien Force*, *M.V.P.*, and *Bloxeed* and the previously released *Galaxy Force* and *Line of Fire*. The deluxe cockpit of *G-LOC* captured the attention of attendees with its ter-



Sandy, Adrea and Ira Battleman of C.A. Robinson, ACME's distributor of the year, talk with Dynamo's Perette Lee and Mark Struhs.



Trying out Data East's "brainwave" pinball, a prototype no-hands device is Mary Robinson, with DE's Peter Gustafson, Gary Stern and Joe Kaminkow.

rific simulator package and graphics.

SNK introduced their newest product, the *Neo Geo* system with four games initially and others to fol-

low. Available now are *Baseball Stars*

Professional, *Nam-1975*, *Magician*, *Lord* and *Top Player's Golf* with *Riding Hero* due in June. They have

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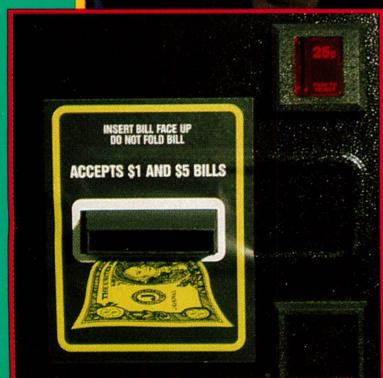
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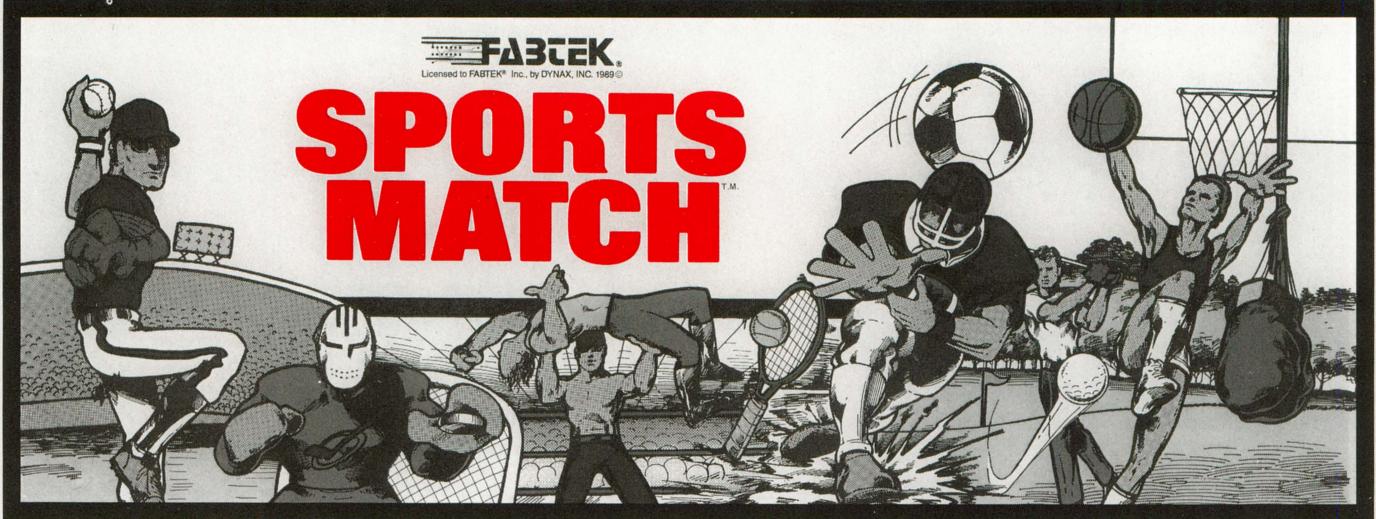


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Isaac Ben-Yehuda, Mayoni president, plays Wheel of Fortune with Gametek's Ivan Rothstein and Karen Lea.



Steve Kaufman of Konami watches an operator play Aliens.



Romstar's Joyce Kaehler and Tim Jackson with Fire Shark.



Jeanne & Frank Ballouz and Drew Maniscalco of Fabtek/Irem with Fabtek's Sports Match kit.



Nintendo's Jerry Monday and Pete Walton.



Doris Cobb, 3-D Amusements, Waterloo, Ont. and Chris Sanfilippo, Cambridge Coin.

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Joel Friedman and Rowe's LaserStar CD jukebox.

said they are committed to at least 25 games for this system and are putting all their efforts into it for the foreseeable future. It operates on a 16-bit microprocessor and has top-notch graphics. They also exhibited the previously introduced *Search and Rescue* and *Beast Busters*, which has three machine-guns mounted on a 35" wide cabinet.

Strata had *Golden Tee Golf*, a golf kit that is very popular, according to operators.

Taito featured *Cadash*, doing very well we're told, with the option to link two games together; as well as *S.C.I.*, *World Grand Prix* and *Battle Shark* with impressive graphics and a periscope that shakes when the player takes an enemy hit.

Tecmo again had their popular *World Cup '90* soccer game.

Williams Electronics Games showed a new space battle kit called *Zero Wing*.

Music

Micro Manufacturing have entered the CD jukebox market with their *Route 66*, made by the British company Sound Leisure.

Pioneer Laser Entertainment announced they now had product available. V-P Paul Scribner introduced the PLE distribution team at ACME with representation in Canada from Pacific Vend and Laniel Canada Inc. He also announced that PLE is "moving up their policy to manufacture product where the market is." They will be producing jukeboxes in the U.S. as soon as possible, which will also make and export the boxes to

Europe and Japan. As well, seven compilation discs are now ready with

two more in the works.

To introduce their CD jukebox, PLE will offer a free CD changer to operators with every initial box purchased through authorized distributors. This offer started March 1 and continues until June 15, 1990.

Carson City Mfg. have plans for a juke for the sports bar market with their as yet to be completed Juke Jock, in the form—I'm not kidding—of a giant sneaker.

NSM again featured their popular *CD Fire* box with their Hyperbeam system.

Rock-Ola had its *Laser 2000* CD box as well as their combo CD/45 jukebox.

Rowe focused on the new *Dance-Star*, a hideaway system designed for continuous music. It should be available "soon." They also had their *LaserStar* line and the *RoweStar* CD/video box on exhibit.

Seeburg showed their *Laser* CD line and had the latest "hot hits" disc available.

At Wurlitzer the *One More Time* nostalgia box is now available in CD, which will hold up to 50 discs.

Sports games

Amazing Games had their *Powerkick Tournament 2000*, Imperial International exhibited their *Premier*



Dick Geezling of Wico stands with Gary Duboff and East Coast Design's universal cabinet.

An advertisement for Eagle Lift. It features a black pickup truck with a flatbed trailer. The trailer is being lowered by a hydraulic lift, demonstrating the product's use for transporting heavy machinery. The text "EAGLE LIFT" is prominently displayed in large, bold letters, with "Easy Come. Easy Go." in a smaller font below it.

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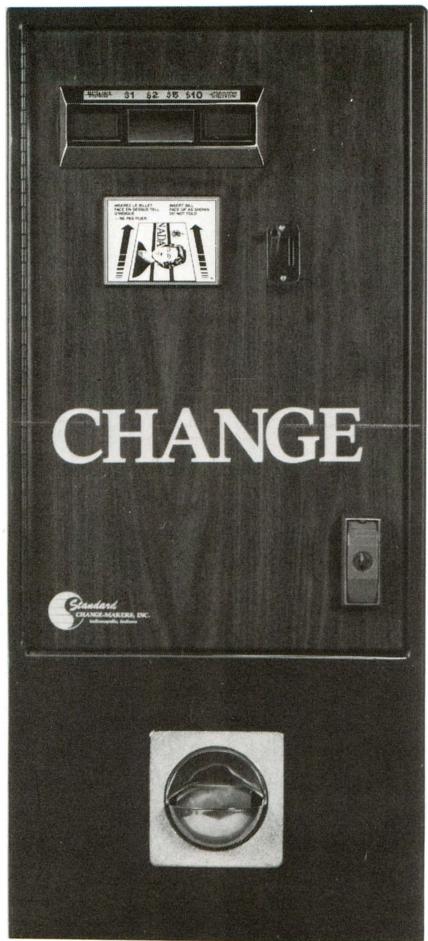
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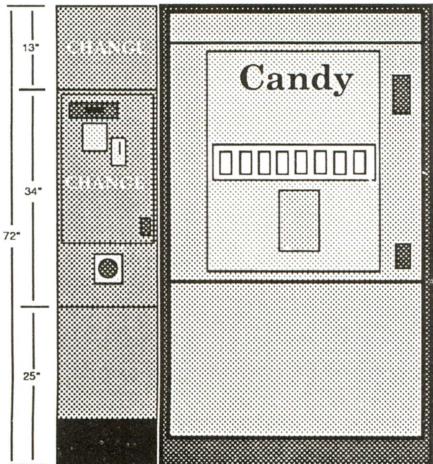
A smaller diagram showing a truck with a lift mechanism, illustrating how the product is used.

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This slim, new changer changes \$1, \$2, \$5 and \$10 bills, plus \$1 coins!

a second and are self-auditing and self-diagnostic.

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Soccer, ICE had an improved *Super Kixx* and *Super Chexx* games, while Tornado Table Soccer showcased *The Standard*. Penn-Ray displayed their *Tournament Soccer*.

Dynamo Corporation showed the new *Electronic 47* pool table, and had their soccer and air hockey games prominently displayed.

Valley Recreation Products, Inc. showed their improved *Cougar ZD-4* pool table and the new *Leopard* table which gives operators a choice between rack or time play. Their *Quik Poke*, unveiled at AMOA last fall, was also on display.

Darts

Arachnid, Inc. introduced a new English Marks model, the 6300T, featuring a new, larger monitor on top of the game, so spectators can follow the action easily. The English Mark dart game now also comes in an stylish oak cabinet. Merit Industries has the Pub Time II Plus 2 as a kit, as well as their Premier Edition. Valley showed its Cougar Darts.

Potpourri

New products included *Little Pro* from Bromley Inc., a redemption item designed like a pinball for the younger player but fun for everyone. *Slick Shot*, from Grand Products Inc. isn't a video game, nor a pool table, but a combination of both, where the player shoots a conventional cue that is picked up by sensors and shown on the video screen making the shots as you shoot on the miniature felt tabletop. In the right location, this one could be a winner!

Exidy showed its new *Croaker* alley game along with *Twister*; Bob's Space Racers had a new one—*Xtra Point*—a football kicking game, as well as their established line of games. Meltec debuted their new *Lunar Golf* and Bay-Tek had two new roller games, *Fielder's Choice* and *Clown Rolldown*.

Smart Industries added a ski alley, *Smart Ball* to their line and Lazer-Tron debuted for the coin-op field, *Shuttle Launch*. Leisure Time Consultants offered the *Comic Clown* egg vender while Vari-Tech, along with *Mr. Six-Gun*, showed *Animal Festival*, a small critter-whacking game.

Leland Corp. didn't get their *Pig Out* video ready in time but had a

new rotary merchandiser in *King Arthur's Round Table* while Mayoni showed their new Perfect Match impulse game. Seidel's newest is *Quackers*, a roll down game, which talks to you in the progression of the game.

Kiddie rides were represented by American Simulators, Amusement Equipment Exchange, Carousel International Corp., and Kiddie Rides USA. □



Leland's Ken Anderson and John Rowe with their King Arthur's Round Table



Aldo Donnaloia with American Technos' Block Out, now ready for shipping.



Richard Gershaw, Brady Dist., looks over Frank Bundra's AmeriDarts.

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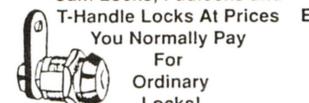
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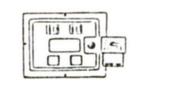


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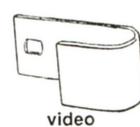
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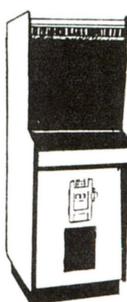
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TECHNICAL TIPS

with Jean-Guy Hardy

Tricks and tips for the pinball technician

A pinball game is one piece of equipment that requires a little more attention than the video game. The playfield surface is the "screen" of the pinball and unlike its video counterpart, needs more than just a wipe.

The playfield surface of a pinball has gone through some major changes in the past few years. Multi-level playboards like Bally's *Black Water 100*, ramps that cross the top of playfield surface, like William's *High Speed* and ball poppers like Data East's *Playboy 35th Anniversary*.

Servicing can be tricky

While all this surface apparel adds to the appeal of the game, the cleaning or servicing of this 3-D ball maze can be tricky. When working on the playfield surface always turn the power off, in case you drop a nut or screw that could short out a circuit. Care should be taken to dismantle small sections of these new features in stages; this will prevent hardware confusion when re-assembling.

A piece of equipment that comes in handy is a simple 6-volt adaptor, which can be modified to test the lamps out of circuit. Checking lamps in those hidden areas that you reveal can save you time. It can be frustrating to re-assemble a section only to find a lamp is burned out.

One thing that has not changed is the use of plastic parts to decorate and camouflage the playfield surface. Those parts can play an important role not only in the appearance but in providing a diverse path for the ball on the playboard.

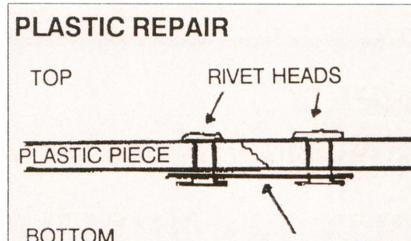
Save those plastic parts from old playboards. You can make a replacement piece from those colourful plastics that can blend or even match a

broken one.

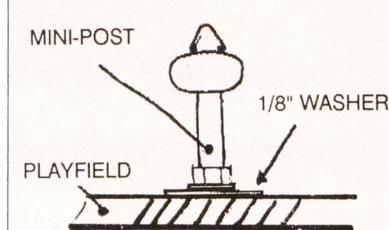
These plastic pieces often show signs of cracking. To prevent the cracks from spreading, drill a small hole just ahead of the crack.

Repairing plastic parts

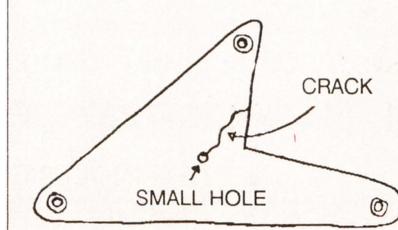
Sometimes you cannot replace a plastic section, but you can repair it. Take a plastic section that needs repair and lay it on a thin piece of sheet metal. Draw a pattern that will be needed to join the two pieces at the break. Using metal shears, cut out the pattern to be used as a splice. Place the plastic pieces on top of the metal splice. Drill a 1/8" hole for pop rivets



MINI-POST PROTECTION



PLASTIC CRACKING



on each side of the break, making sure that the two pieces are aligned. Take 1/4" long rivets and remove the stems from the rivet bodies, push the rivet bodies through the holes in the plastic and then the metal splice (see diagram).

Place the rivet head holding the parts on a flat metal surface, like a bench vice. Using a centre punch, flare over each rivet. Then, with a ballpeen hammer, flatten the rivets lightly. This method of securing the rivets is safer than squeezing with a rivet gun, which could crack the plastic pieces from the pressure of the rivet gun.

The plastic ramps used by some games can be damaged from the ball hitting them at bad angles. The replacement of those ramps is an expensive process. Repairs to the ramp can be carried out using fibreglass cloth and resin mix, available for purchase at any hardware or auto supply store.

Remove the ramp from the playboard. Prepare the fibreglass mixture according to the directions of the product you bought. Apply the cloth and resin mixture to ramp, being careful not to alter the ball travel path. A good place to lay the cloth is on the reverse side of the break, out of the way of the ball path.

After drying, sand the fibreglass smooth, taking care not to scratch the ramp surface. If necessary, paint the repaired area; this may help in the game's appearance. Install the ramp on the playboard and using the ball check for the smoothness of the ramp.

When a game comes into the shop after it has been out on location, examine the ramps for any cracks or breaks and apply the fibreglass mixture to those areas to prevent further damage to the ramp. This can be done in a short time while cleaning the playfield surface and will add life to that ramp.

Here is another good use for the fibreglass mixture: filling enlarged holes that the posts' screws create. Because the posts get hit with a great deal of force, they tend to loosen up and elongate the hole in the playfield surface.

Mini-post problems

The playfield surface on modern pinballs makes use of mini-posts on an

increasing scale. The posts have a small surface area unlike the standard size post and can be jarred loose from the ball hitting them. They lean off on an angle and can cause the ball to deflect off the playboard.

A small 1/8" flat washer against the playboard and post will increase the surface area. The washer will also hide the dent that the post creates in the playfield surface from being hit by the ball (see diagram).

If you have any "Tips or Tricks" you would like to let us know about, just drop me a line, care of this magazine. Remember: always keep your playfield surfaces clean and tuned-up. A dead bumper, weak flipper is not maximizing your earning power.

Editor's note: Congratulations are in order to the Hardy household

for the latest addition, their third child. Harrison, a healthy 7 lb. 7 oz. boy, was born to Sharon and Jean-Guy on March 7, 1990.

TRIVIA TID-BIT: What was the name of the world's first "talking" pinball game and when was it introduced? (Answer below.)

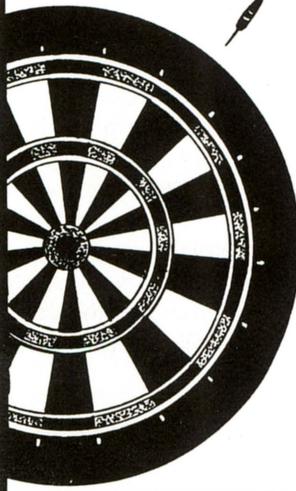
Jean-Guy Hardy is the chief technician and service manager for Service Coin Ltd, Saint John, New Brunswick. Readers are encouraged to write Jean-Guy, care of Canadian Coin Box magazine, with their technical problems and comments.

TRIVIA ANSWER: *Gorgar* from Williams was unveiled in 1979 taunting players with such phrases as "Me, Gorgar", "Beat Me", and "You hurt Gorgar."

□

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Slick Shot marries pool to video in unique way

Pool sharks and video wizards will hustle into their favourite street location to play *Slick Shot*, the new interactive video pool game from Grand Products, Inc. An authentic mini pool table, complete with side rails, pool cue and ball invites up to four players to compete.

Players shoot the standard-sized cue on the playfield to correspond with the table set-up shown on the video screen. The cue passes optical sensors located behind plexiglass which read its speed and direction and the action is picked up on the screen. Each player begins by breaking and continues to shoot until a shot is missed. The second player gets another break, and shoots until he or she misses. After that they have to switch shots.

The shots are set up on the screen randomly, with more than 30 break, trick and slick shots programmed into the game—some of which cannot be duplicated on a standard pool table. Realistic sounds and animated characters keep you "on the ball." A player has 20 seconds to make a shot (operator adjustable), and continues to play until a shot is missed. There is also pick-a-pocket and pick-a-ball action for the more skilled players. The rules are spelled out on the screen before action begins.

A buy-in feature is included in *Slick Shot* for players who want to enter the game while it is in early progress, and for players who want to team-up and combine scores. By sink-

ing a special yellow flashing ball or two balls in one shot, additional time is awarded. And, just as in real pool, a player can scratch.

Slick Shot has exceptional levels of animation, diagnostics and bookkeeping functions. Other features include a 25" horizontal Wells Gardner colour monitor, laminated safety glass, covering CRT and tempered marquee glass. The cabinet is finished in wood grain Melamine. There are rear wheels and hand holds for easy movement. The game also comes with two four-foot cue sticks and a 2-1/8" cue ball. The felt playing surface slides out for easy servicing.

The cabinet stands 70" high, and is 24-1/2" wide by 43" deep. It weighs 295 lbs.

For more information, contact your local distributor or for referral, call Grand Products, Inc. 708-766-8282, fax: 708-766-6688.



Trog video rocks!

Midway brings the Dark Ages into the 20th Century with a brand new video game that really rocks! Midway's *Trog* brings to life a prehistoric cast of characters created in PLAYmation, a technique that's all-new to the video game world.

Meet Rex, Bloop, Spike and Gwen, four delightful dinosaurs destined to collect their eggs and reach home. Meet their "prehysterical" predator Trog, the hungry, one-eyed caveman who's always inventing something new to help him catch a dino-dinner! Wave after wave, players must build a maze of bones to guide their dinos on their egg hunt, avoiding perilous tar pits, blazing fires and the voracious appetite of Trog.

Trog's all-new upright cabinet design features a 25" monitor and a spectacular graphics package that really grabs attention. *Trog* commands mass appeal with its easy-to-learn yet challenging game play and will capture the coins of young and old, male and female, arcade and street players alike. One- to four-player configuration with constant buy-in feature is keeping this piece busier than any of the ninjas or gunslingers that currently glut the marketplace, says Midway.

For more information, contact your local distributor or for referral, call Midway Manufacturing Company 312-267-2240.

Silver Slugger saves \$\$

Opening day 1990 may not be delayed with the release of Gottlieb's latest pinball *Silver Slugger*, by Premier Technology. This futuristic sports game is a must for all operators concerned with return on investment and excessive service calls.

Through manufacturing efficiencies and design efforts, the price of *Silver Slugger* will be reduced considerably. You'll quickly notice the extra care taken during design to ensure no possible ball hang-ups and mechanical failures.

Features on this game include multi-ball play, dual game scoring and multiple game play modes. The pinball accumulates points two ways, the traditional method as well as by runs scored.

For redemption purposes, *Silver Slugger* is pre-wired for the addition of a ticket dispenser. The arcade and street operator alike can make use of the pre-wiring, enabling the addition of an electro-mechanical coin counter meter. Increased collections will be

NEW PRODUCTS



easy, as the game has an optional door featuring one coin slot and a slot for a dollar bill validator.

For more information, contact your local distributor, or for referral call Premier Technology toll-free in Canada 1-800-444-0797, fax: 708-350-1097.

Taito's mystical Cadash

Taito's new two-player kit is a mystical magical adventure game called *Cadash*. Players start the game by entering a throne room and are invited by the King to go on a mission to rescue his daughter, the Princess Sarasa, who has been kidnapped by Barrog, the bad guy.

Players can choose from four characters which one will best carry them through the varied stages of play. Select the Fighter for best attacking power and persistence; the Magician who can utilize strong magical powers; the Priest who has heavy protective magic; or the Ninja who

can move the quickest and attack enemies with his knife-throwing ability.

To help them on their way, players will want to stop and talk to other travellers they meet on their journey to receive tips on the best and quickest way to get through each challenge. But players beware! Each level has unusual and increasingly vicious adversaries, all who wish to impede one's path to final victory.

To reward players for victory through adversity, some of the defeated foes turn into bags of gold. Players can pick up the gold as they fight their way through the treacherous tiers.

Two *Cadash* cabinets can be combined for four-player use with Taito's special communication cable.

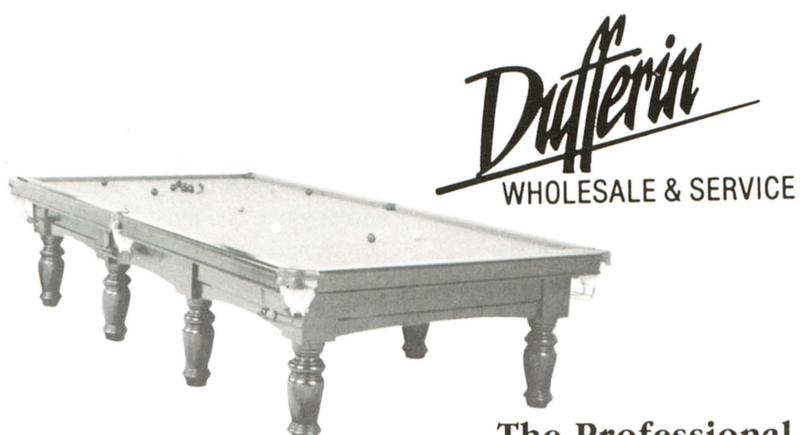
For more information, or distributor referral, call Taito America Corporation, 312-520-9280, fax: 312-520-1309.

Battleshark wages a high-tech undersea war

Taito's latest introduction to the dedicated video game market is *Battleshark*, the "ultimate" submarine adventure. The game is designed to give players the simulation of an underwater submarine patrol, as the commander controlling a high-tech, super submarine. They will experience piloting their boat in hostile seas by periscope with hand-grip triggers, blasting through scores of enemy craft while the enemy attempts to attack from every direction and wreak havoc and destruction upon the vessel.

Battleshark's cabinet visibly shakes and quivers as it takes direct hits from the myriad antagonists that patrol the same waters. Players can physically see the damage as *Battleshark* receives injury from each encounter and runs its collision course.

Players are armed with a specific number of torpedoes at the start of a mission; shooting the allotted torpedoes with accuracy is important as players need to hoard a number of them for the surprise life-and-death confrontation which they must overcome at the end of each stage of the game. Defeating this major enemy



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and completing the stage will increase the number of torpedoes available for continued warfare.

Along the combat path, *Battleshark* must pick up bonus mines for more fighting power, extra torpedoes and damage repair. When the *Battleshark* receives too much damage to continue, the battle is lost, the game is over. The game features continuous buy-in.

For more information, or distributor referral, call Taito America Corporation, 312-520-9280, fax: 312-520-1309.

Data East unmasks Phantom of the Opera

Phantom of the Opera is the new thriller from Data East Pinball and it marks the return of famed pinball artist Paul Faris to a unique art. The new game features patented solid state flippers, digital stereo sound and has a unique opening and closing organ and secret passageway.

Phantom displays a new printing technique for the backglass which allows the phantom's disfigured face to be unmasked before the player's eyes. Designed by Joe Kaminkow and Ed Cebula, the duo responsible for *Time*

Machine and *ABC Monday Night Football*, this new pinball also has such technical marvels as new gold microswitches on the flipper buttons and ultra locktite on new features like the magic mirror shot and unique two- and three-ball multiball play, as well as a mechanical secret passageway.

For more information, contact your local distributor, or for referral call Data East USA Inc., 408-286-7074.



G-LOC takes to the sky

Sega Enterprises, Inc. (U.S.A.) takes to the skies again with their air battle video game, *G-LOC*.

Sega says they have reached new heights with its technology that creates the feel of *G-LOC* (loss of conscience by G-Force). The game puts players in an F-15 fighter jet strategically battling any MiG that gets in the way.

The one-player game comes equipped with flight stick, throttle (with afterburner button), guided missile button and machine-gun button. There are three player-selectable levels—trainee, rookie, ace—totalling 36 stages.

The player takes off from an aircraft carrier dodging the enemy's sight to avoid being a target once the enemy "locks on." One is sure to feel the sensation of an F-15 while sitting in the deluxe moving cabinet because that's when you feel the fast action dog fighting tactics. Also available in upright and cockpit models.

For more information, contact your local distributor, or for referral call Sega Enterprises, Inc. (U.S.A.), 408-435-0201.

Bromley's Little Pro scores a hole-in-one

Bromley Incorporated have introduced *Little Pro*, an innovative pinball-style electro-mechanical ticket dispensing game featuring a miniature golf course within the parameters of a pinball-sized cabinet. The novelty game is touted by Bromley as "an adult piece for your kid locations and a kid piece for your adult locations."

The player uses a knob and three

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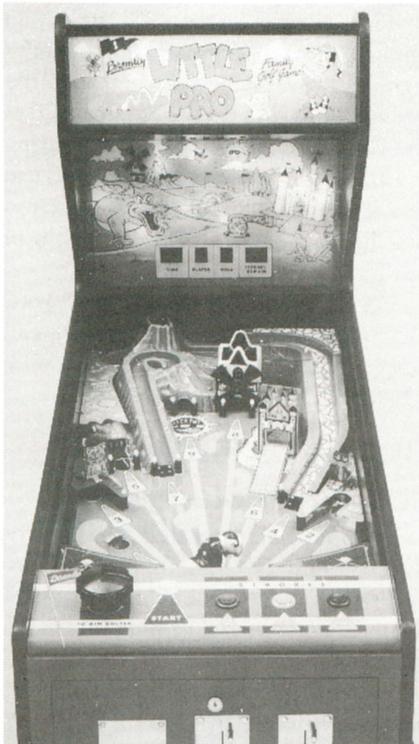
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buttons (for a soft, medium or hard stroke) to control the swing action of a golfer figure who stands at the near end of the playfield. The playfield contains a miniature golf course and the object of the game is to complete the round in the fewest possible strokes. The player is rewarded along the way with tickets. The final hole—the ninth—offers a jackpot where the operator may give away either 1, 10, 15, 25 or 50 tickets, depending on how they have chosen to set the game.

Little Pro comes in a 100 per cent plywood cabinet, using solid-state electronics, microswitches and a Deltronic ticket dispenser.

For more information contact your local distributor, or for referral call Lauran Bromley, Bromley Incorporated, 312-267-6030, fax: 312-509-9508.

Mercs has CPS system

Mercs is Capcom's newest dedicated video game produced on their CPS System. A military-themed video, the three-player interactive game is based on mercenaries who fight their way through a variety of locales including jungle and aquatic scenes to rescue a hostage held by unfriendly and well-armed forces.

Outfitted with an unlimited supply of ammunition for machine-guns and grenades, the mercs move from their staging point on a tropical beach inland through jungle, swamp, town and military installations. By firing at "power ups," they can enhance their machine-gun capabilities so that they are firing up to nine streams of bullets simultaneously. Different weapons available to players include a multi-directional gun, rocket launcher and flame thrower. Players may also capture tanks, jeeps and motorboats complete with torpedoes. The game ends when players rescue the kidnapped former president.

Utilizing a vertical 25" screen, the game is also part of Capcom's rebate program that allows operators to trade their used CPS system boards in to authorized distributors for a \$500 rebate on a new game (after two years).

For more information, contact your

local distributor, or for referral contact Capcom USA, Inc., 408-727-0400, fax: 408-496-6679.

Capcom's Final Fight

Capcom has debuted its new kit *Final Fight*, a sequel to the multi-player video game *Street Fighter*.

Final Fight is a CPS System game with Capcom's CPS Super Chip that features high resolution graphics and interactive play in a setting where the streets have become a sleazy background for battle. It heralds the return of the original street fighter, Haggar, now mayor of the city.

Players fight their way through the seedy underworld of the Mad Gear Gang, which has kidnapped Haggar's daughter and demanded ransom from the city. The game involves fighting in subways, wrestling rings and warehouses with fists and feet, knives and Molotov cocktails.

For more information, contact your local distributor or for referral call Capcom U.S.A., Inc. 408-727-0400, fax: 408-496-6679.

Batter's up with M.V.P.

Sega welcomes fans to an exciting Spring line-up with its ultimate version of baseball, *M.V.P.* This realistic baseball game lets players feel for themselves the action which they create on the screen. Because of the simple and yet detailed control panel, *M.V.P.* delivers one- or two-player action to casual or avid baseball fans.

Each player is equipped with one joystick and three push buttons. On



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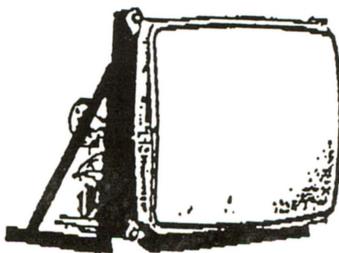
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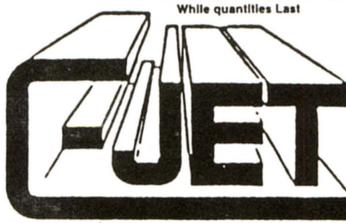
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offence, the player uses one button to bat. The second button can be used for putting in a pinch hitter (before any pitching motion) or for bunting (after pitching motion). The third button can be used for making movements in the batter's box (before pitching motion) or for making changes in your stance or swing (after pitching motion). As a runner on offence, the joystick is used for pointing the runner in the direction you want him to go. One button is used to return the runner to base; the second button is used to advance/steal (lead off) or to touch up at base.

As a pitcher on defence, movement of the joystick at the appropriate time will allow various pitching strategies such as type of pitch and the course in which you want the ball to travel. With push buttons the pitcher can choose strength of pitch, attempt a pick off or put in a relief pitcher. As a fielder on defence, players use the joystick to determine where they want the ball to be thrown. With the buttons, players can choose whether they want to pursue with the ball in hand or throw it to the appropriate fielder. Certain other techniques can be used with combinations of joystick and push button usages.

For more information, contact your local distributor, or for referral call Sega Enterprises, Inc. (U.S.A.), 408-435-0201.



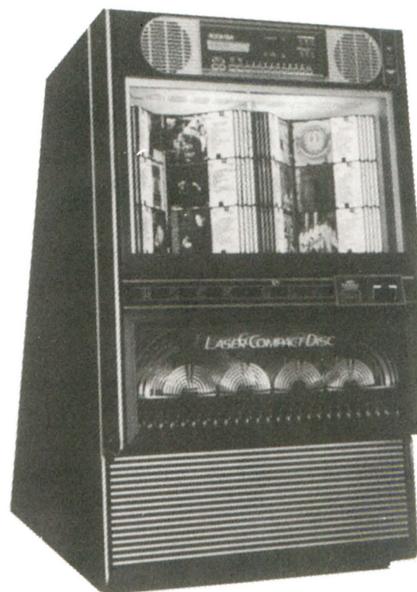
An Alien Storm blows in

Sega is on the go with powerful new technology as it brings *Alien Storm* to you. With more colourful graphics, this story is of three employees of a neighbourhood hot dog stand in the year 2002 that are called to duty when they hear broadcasts of an alien invasion. Their mission as Alien Busters is to protect the citizens from the slimy aliens.

This one-, two- or three-player interactive mission takes players

through nine rounds of alien busting. Scenes range from attacking in the streets to shooting inside the Alien Monster body. The upright cabinet features a 25" horizontal monitor.

For more information, contact your local distributor, or for referral call Sega Enterprises, Inc. (U.S.A.), 408-435-0201.



Rock-Ola's Laser 2000

Rock-Ola Manufacturing Corporation have begun full production on their first dedicated CD jukebox. Utilizing a Phillips CDM3 commercial CD player, the *Laser 2000* has a capacity for 100 CDs and up to 1500 individual song selections. The display area with motor-driven pages shows 12 record covers at a time.

Some of the jukebox's benefits include a wired remote volume control that can be used to cancel songs in play (an optional wireless system is available) and built-in access for either external background music or internal background selections (drawn from the box's last five CDs) that can be set at a lower volume level than pay-for-play.

The amplifier has 280 watts (RMS total output and the new speakers are 12" 100-watt high efficiency woofers, with two 6" full range coaxial speakers. The cabinet is covered with black leather grain vinyl, trimmed in gold and has no horizontal surfaces to rest food or drink.

For operator convenience, the

Laser 2000 has an LED display for basic pass/fail diagnostic checks of the operating system, and automatic disc mapping that eliminates manual selection programming for each CD. By pushing a button, operators can learn the least played discs, which are automatically retrieved from the jukebox's magazine. The machine also has totally programmable operator pricing.

For more information, contact your local distributor, or for referral call Rock-Ola Manufacturing Corporation, 708-629-9200, fax: 708-628-0019.

Konami has Aliens

Konami takes players on a space adventure with *Aliens*, their newest two-player interactive kit, drawn from the popular movie of the same title and adapted to the video screen, as licensed by Twentieth Century Fox Film Corp.

Movie lovers will remember LV426 Acheron, the planet beset with grotesque alien life forms. In Konami's version, 57 years have passed since the last confrontation with the aliens. Now their breeding grounds have been detected and players must rid the settlement of the creatures.

The mission travels through airways, elevators, underground waterways and tunnel systems within the space colony. In addition to fighting existing aliens, players must also eliminate incubation rooms and hatching grounds while dodging fatal electric shock waves, steam blasts, barricades and dripping alien acid. Power weapons include missiles, triple bullets, flamethrowers, three-way shots and bombs.

Game play climaxes in the lair of the mother alien, who is hatching more larvae. After destroying her, players settle into their space ship for the long journey home only to find one last alien is aboard. In the last, most desperate fight, the fate of the universe depends on the player!

The game utilizes a horizontal monitor and features continuation and buy-in. Controls include eight-way joysticks and two shoot buttons.

For more information, contact your

NEW PRODUCTS

local distributor, or for referral call Konami Inc., 312-215-5100, fax: 312-215-5144.



Smartball ski alley

With *Smartball*, Smart Industries has taken an old familiar pastime and sparked new interest by presenting a new look to the ski alley concept. Along with the stylish, sleek look of the cabinet design and its inset playfield, the impact of the game is enhanced by the brilliant colour scheme of blue, red and yellow.

Smartball is available in one- or four-player models in a choice of 10- or 13-foot alleys. Both alleys are 29-1/2" wide and 79" high at the back. The 10-foot alley weighs 385 lbs. and the 13-foot alley weighs 425 lbs. Other features include a super "Action" sound system, coin counter meter, a separate locked coin box, dependable microprocessor game boards and adjustable winner levels. *Smartball* is totally serviceable from the front.

Options include an automatic adjustable ticket dispenser, ticket counter, low ticket warning light, an extra high capacity ticket holder, bubble winner light and 100 point bonus pockets for more exciting scoring action.

For more information, call your local distributor, or for referral contact Smart Industries Corp., Mfg., 515-265-9900, fax: 515-265-3148.

Fabtek's Sports Match

Give your mind a workout with Fabtek's new video game puzzle—*Sports Match*.

It's fast, fun and easy to play, says Fabtek. Simply connect pairs of sports-related Pls (tiles) in a straight line or with one 90° turn. Clear the screen and move to another more complex arrangement. Challenge yourself or go head-to-head with an opponent, but be forewarned, this game is downright addictive!

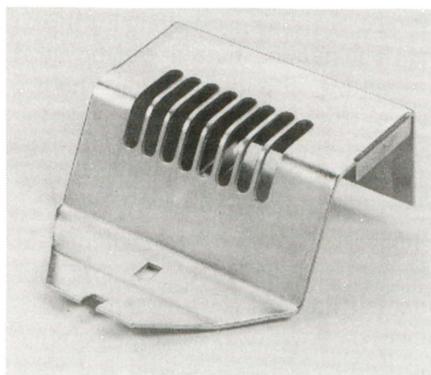
Sports Match is a horizontal kit that will fit conventional upright cabinets as well as most countertop and cocktail tables.

For more information, contact your local distributor, or for referral call Fabtek, Inc., 206-882-1093.

New coin funnel

The new ESD high security vertical grid type funnel replaces existing coin funnels for higher security. This new funnel adapts to almost all machines and is 100 per cent steel construction.

ESD manufactures products for vending and laundry, including coin slides, money boxes and high security locks under the ESD name. They also distribute brand name special application locks.



For more information, contact ESD, in Canada toll-free 1-800-328-1320, fax: 1-215-643-4623.

Croaker from Exidy

Exidy has introduced a companion redemption game to their popular *Twister* with *Croaker*, a challenging game. This new ball alley game features infrared optic sensor switches, attract lights, audio, canopy plex and a secure coin box and Deltronics ticket dispenser. No assembly is required for the 7' by 2' cabinet which has easy access for the operator through a bottom trap door.

For more information, contact Exidy marketing and sales 415-325-5814, fax: 415-325-5817.

Sodafloat adapter

Now you can use the Sodafloat system to float your snacks too. Adapters are now available from Airsled, Inc. to make the Sodafloat system fit most snack venders, eliminating once and for all the "bull" labour needed to move these heavy machines.

The standard Soda Float system floats venders only if the machine is directly on the floor with 1/2" to 3/4" clearance, which usually means only beverage venders can be moved with the Sodafloat. Snack venders, which usually sit off the floor on legs up to six inches, previously could not be moved with the Sodafloat. The adapters fill the gap between the floor and the snack vender.

The adapters are made of wood and are adjustable to make it possible to move snack venders on 4", 5" or 6" legs. The adaptors fit between the company patented "air beams" and the underside of the vender. With the adapters in place, the air beams

An advertisement for SLATE-MATE. It features a stylized illustration of a pool table with a wooden frame and a white cloth. The text reads: "SLATE-MATE...with bumper tubes", "the fastest way in the world to recover pool tables without removing the SLATE!", "for more information", "CALL COLLECT (313) 636-2040".

NEW PRODUCTS

operate normally, filling up with air, and lifting the machine off the ground. The floating machine can then be moved with little effort. The adapters can be purchased separately or along with the Sodafloat system. Also available is a side entry system for moving vending machines through doorways.

For more information, contact Airsled, Inc., 302-996-5417, fax: 302-996-6468.

Movie Hut is back

The popular Movie Hut is back, now with a \$1 coin mechanism and a new VCR/monitor system, patent pending. The system operates VHS tapes popular cartoons and is touted as having "low maintenance with high income." Children can while away the time watching their favourite cartoons while parents attend to their business.

Territorial rights are now being awarded.

For more information, contact Movie Hut of Canada Ltd., 143 8th St.

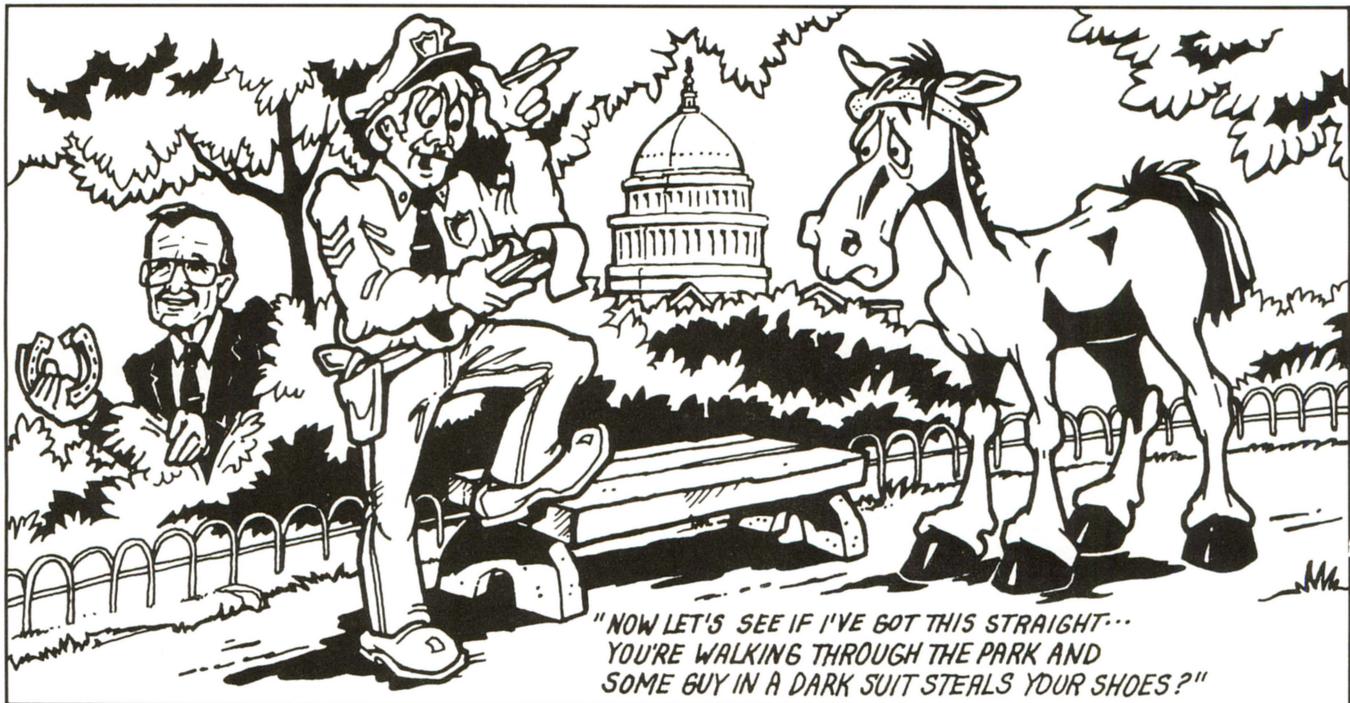
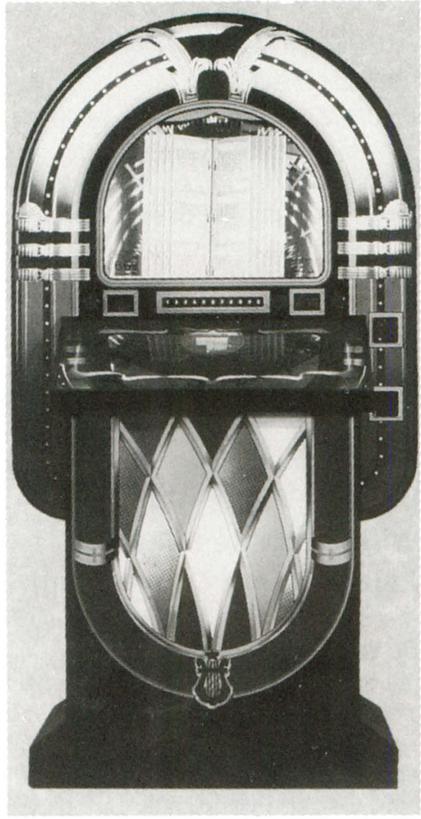
E., P.O. Box 422, Owen Sound, Ont. N4K 5P7. Tel: 519-371-4347.

Route 66 CD jukebox

Micro Manufacturing of Tennessee have entered the CD jukebox market with the *Compact Disc Route 66* model, built by the British firm Sound Leisure. Cased in a colourful nostalgic-type cabinet, the unit stands 60" high by 33-1/4" wide and has a maximum depth of 20". It can interface directly with up to three Sound Leisure CD wallboxes.

The box has a 66-disc display (plus four for background music), random play facility, two tier data retrieval system, stereo or mono amplification, twin sliding RVC and background music facility with coin override and real time clock control. Pricing and bonus adjustments are made via a keypad.

For more information, contact Micro Manufacturing, 615-793-5510, fax: 615-793-5512. □



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Arachnid 6300 Darts switch bounce

Bob Hade, *TBI Games, Rockford, Ill.*

Symptom: If you're running some 6300 darts, one problem to look out for is the player change switch. If you're having problems with the game changing players by itself or trouble with it changing players when pushed, don't overlook the possibility that the microswitch is bad, even though it works fine for you when you get there.

Solution: The problem stems from a red Cherry microswitch that bounces bad. Replace and monitor.

Wiring problems with Leland Team Quarterback

Evan Wessel, *Mercury Amusement Co., Havertown, Pa.*

Problem: There is a problem that exists in Leland wiring harnesses in *Team Quarterback* that you should know about. If you are having problems with springstick calibration or intermittent controls, you probably have a break in a violet wire at a connector.

Reason: Leland used a batch of defective violet coloured wire that will break if flexed about 10 times. This is especially a problem at the crimp point on the molex connectors.

Solution: Unfortunately, you should replace all of the brittle violet wiring from the control panel to the PCBs. The control panel assembly must be removed to properly complete this job. For a quick fix in the field, a new wire can be jumpered in, but the next time this game hits the shop, it should be rewired.

Pinball inclinometer available from Williams

Larry DeMar, *Williams Electronics, Chicago, Ill.*

To all those who were wondering where to get an inclinometer to properly level your pinball machines, it may be ordered through your Williams distributor as part# 20-9520.

Williams memory protect

Field Service, *Williams Electronics, Chicago, Ill.*

System 11 pinball games display the Adjustment Failure message after power-up.

During normal game power-up, the coin door is closed, causing the Memory Protect switch to be actuated. If a problem causes the game program to try to reset to factory settings, the Adjustment Failure message appears, when the game program fails

to complete the reset operation. This indicates a problem with the Memory Protect circuitry (which may include the batteries, diodes, U25, U36, or switch and wiring).

Procedure: Check that the CPU board batteries are firmly in place in the battery holder and that they have good electrical contact with the holder's terminals. With the game turned off, check for a minimum battery voltage of 3.8V DC at pin 24 of U25. Replace batteries if voltage is low.

Check for proper diode action of CPU Board diodes D1 and D2. Check CPU board CMOS RAM U25 and associated circuitry. Check the coin door

wiring, including the action of the Memory Protect switch. Check CPU board U36 (Memory Protect circuit) for proper operation.

Electrohome/Wells Gardner monitor fading

James Beck, *Greater Southern Distributing, Atlanta, Ga.*

Symptom: The left side of the monitor is dark while the right side displays normal video.

Cause: The problem described is caused by a poorly filtered B+ boost coming from the flyback.

Solution: On an Electrohome G07 chassis monitor the filter cap is located on the neck board. Check or replace cap C107, 10 mfd at 250V. When it fails it causes excessive brightness, i.e. with the screen control turned all the way down, the picture still has retrace lines in it.

On the Wells Gardner K4900 series monitor chassis, the cap that will cause side to side fading is C702 (10uf, 100V) located near the flyback on the main board. Replace this cap with 10uf at 160V.

Sanyo monitor raster shift

David Waite, *Independent Service, Fayetteville, Ark.*

Symptom: Whole raster shifts to right hand side (monitor normally oriented) of picture tube. This is not foldover, not a sync problem. This monitor is found in Nintendo videos.

Cure: Some technicians when using this type of monitor with a conversion kit, expand the picture by changing C470 (note: C470 printed on PCB but shown as C480 on schematics) which is rated at .47 @ 400V to a lower value.

Too low a value (.2 @ 400V, for example) causes overheating of R479 and D475. Also, C485 which is positioned right below R479 fails. Replace C485 check R479 for 300 ohms. Note: Changing C470 (aka C480) for a much lower value causes discoloration of the trace on the PCB, a sure sign of impending failure of one of the above components.

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CONTINUED FROM PAGE 22

Well-Gardner new styles monitor, says director of coin-op sales Larry Berke, with the neck guard and up-front monitor adjustment controls in the drawer. Dual speakers offer stereo sound. In addition to the two control panels, blank panels for track ball use are available.

KD Industries

220 Robinhood Lane, Circle Pines, Minnesota 55014; 612-786-7766, fax: 612-784-9628.

Calling his company's Video Kit-Kabinet the "10-year cabinet," Andy Berglund says KD are standardizing their cabinet and "will sell it stripped, fully loaded or anywhere in between." It is available with 19", 25" or 27" vert. or horiz. monitors. Other features Berglund emphasized are bumper guides on both sides, steel rear corner protectors, skid plates and their removable and interchangeable slide-drawer system. A video tape is included as an instruction manual, Berglund notes, in KD's efforts to make its assembly as simple as possible. The cabinet "knocks down" and can be shipped flat. Lightweight

plywood construction lowers the base cabinet weight to just 180 lbs. Component parts may be purchased as needed.

MH Associates, Ltd.

4202 North 14th Ave., Fargo, North Dakota 58102; 701-282-7877.

The MH C1025 works-in-a-drawer cabinet, says MHA president Gene Seiben, is designed and built to last a long time and allow players to spend long hours playing with minimum fatigue. Special features encompass an extra large universal control panel with pre-drilled holes, melamine thermofused coat, five-year warranty on 12-amp power supply and 240V amp isolation transformer, built-in voltage spike protection, large leg levellers, over/under coin door with slam switch, coin meter, service switch and test switch, and two cooling vents.

Plateau, Inc.

1 Plateau Lane, Tracy City, Tennessee 37387; 615-592-2000, fax: 615-592-2010.

All Angle System cabinets now include Plateau's new swing-out monitor mechanism for both 19" and 25" in the same cabinet which allows

the monitor to swing out in the vertical or horizontal position allowing easy access to all monitor controls and allowing a single person to switch positions in less than a minute. This new innovation does not make the previous Angle System cabinets obsolete as a drawer from their first cabinet fits in a new cabinet. According to Plateau, this makes their's "the only true system cabinet by not out-dating any Angle cabinet ever built."

PVA Inc.

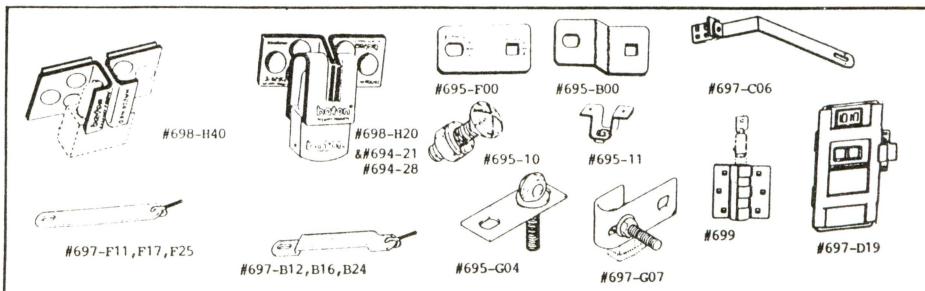
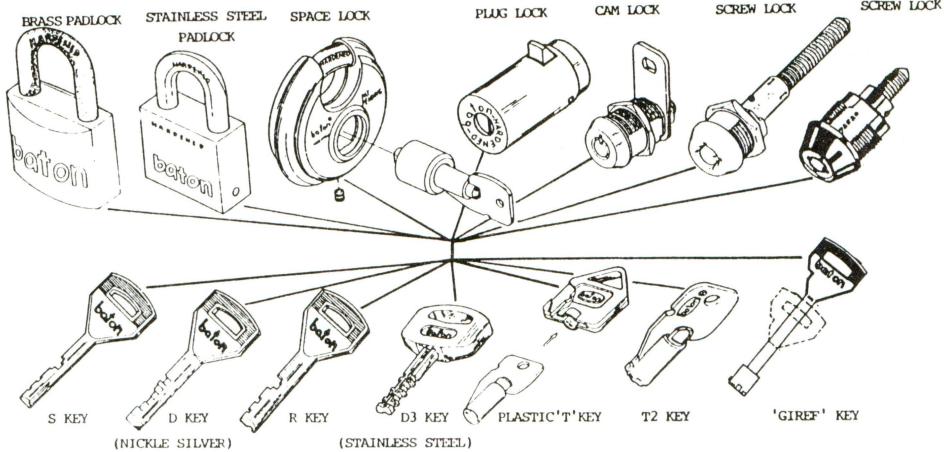
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7101 Trans Canadienne, St-Laurent, P.Q. H4T 1A2; 514-336-5050, fax: 514-332-1739.

Distributor: Laniel Canada, Inc.

All of PVA Inc.'s video cabinets are constructed of melamine 11/16" panels with vinyl edging with Hantarex monitors mounted either vert. or horiz. They have heavy duty Coin Mechanism over/under coin doors, front drawer system and interface wiring board. Custom models or partially built cabinets are available on request (for quantity orders only). Four models are available: Up Right 13/19; Mini Up Right 13", Bar Top 9/10 and Up Right 13".

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AMOA Team Dart V, \$25,000 International Team Championships of Electronic Darting, Sahara Hotel, Las Vegas, Nevada. Contact: Joe Conway, 414-263-2444, fax: 414-265-9199.

May 4-6

Northeast Regional Amusement Machine Convention & Trade Show, Trump Regency, Atlantic City, New Jersey. Contact: 518-439-0981.

May 5-6

Star*Tech Journal Technical Seminar Program for advancing technicians, General Coin, Seattle, Washington. Contact: 609-662-1080.

May 19-20

Star*Tech Journal Technical Seminar Program for advancing technicians, Betson Pacific, San Francisco, California. Contact: 609-662-1080.

May 26-June 2

Valley National 8-Ball League 10th Annual International Singles and Team Championships, Riviera Hotel & Casino, Las Vegas, Nevada. Contact: Gregg Elliott, 517-893-1800.

June 2-3

Star*Tech Journal Technical Seminar Program for advancing technicians, Mountain Coin, Las Vegas, Nevada. Contact: 609-662-1080.

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Star*Tech Journal Technical Seminar Program for advancing technicians, First Choice Coin, Denver, Colorado. Contact: 609-662-1080.

June 23-24

Star*Tech Journal Technical Seminar Program for advancing technicians, H.A. Franz & Co., Houston, Texas. Contact: 609-662-1080.

July 10-11

Latin American Coin-op Exposition, U.S. Trade Center, Mexico City, Mexico. Sponsored by the AAMA. Contact: AAMA, 703-494-2758 or William T. Glasgow, Inc. 708-333-9292.

Oct. 11-14

National Automatic Merchandising Association Convention and Trade Show, Orlando, Florida. Contact: NAMA 312-346-0370.

Oct. 25-27

Amusement and Music Operators Association (AMOA) Expo '90, New Orleans Convention Center, New Orleans, Louisiana. Contact: AMOA 312-565-4602.

Nov. 9-10

Pinball Expo '90 and Flip Out pinball tournament, Ramada Hotel O'Hare, Rosemont, Illinois. Contact: Rob Berk, 216-369-1192.

March 22-24, 1991

American Coin Machine Exposition (ACME) 1991, Bally's Hotel, Las Vegas, Nevada. Contact: W.T. Glasgow, Inc. 708-333-9292.

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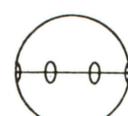


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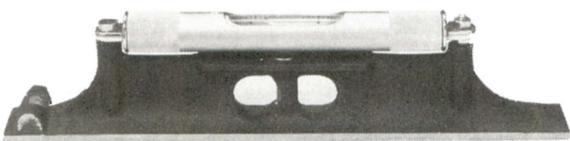
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